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Jon Anderson

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Fluke Connect[™] Selection Guide

The Fluke Connect[™] App displays readings from up to ten modules on the iPhone and six modules on an Android device. A vast of Fluke Infrared Cameras display their own measurements plus readings from up to five wireless modules. The 3000 FC Wireless Digital Multimeter displays its own readings plus measurements from up to three wireless modules. The 173X Power Loggers and 174X Power Quality Loggers display their own measurements plus readings from up to two wireless modules.

Fluke Connect™ tools	Fluke Connect [™] App – iOS and Android [™]	TiX580 Infrared Camera	Ti480 PRO Infrared Camera	PTi120/TiSxx Series Infrared Cameras	3000 FC Digital Multimeter	902 FC True-rms HVAC Clamp Module	378/377/376/375/374/393 FC Clamp Meters	a3000/a3001 FC AC Current Clamp Modules	a3002 FC AC/DC Current Clamp Module	a3003/a3004 FC DC Current Clamp Modules	v3000 FC AC Voltage Module	v3001 FC DC Voltage Module	t3000 FC Temperature Module	1555/1550C Insulation Resistance Testers	1742/1746/1748 Power Quality Loggers	1732/1734/1736/1738 Electrical Loggers	729 FC Automatic Pressure Calibrator	787B/789 ProcessMeter™	1587 FC Insulation Multimeter	1664 FC Multifunction Installation Tester	805 FC Vibration Tester	125B/124B/123B ScopeMeters®	279 FC Digital Thermal Multimeter	1630-2 FC Earth Ground Clamp	368/369 FC Leakage Current Clamps
Fluke Connect™ App – iOS and Android	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
TiX580 Infrared Camera	•				•	•	•	•	•	•	•	•	•												
Ti480PRO Infrared Camera	•				•	•	•	•	•	•	•	•	•												
PTi120/TiSxx Series Infrared Cameras	•				•	•	•	•	•	•	•	•	•												
3000 FC Digital Multimeter	•	•	•					•	•	•	•	•	•		•	•									
a3000/a3001 FC AC Current Clamp Modules	•	•	•	•	•										•	•									
902 FC True-RMS HVAC Clamp Meter	•	•	•	•	•										•	•									
378/377/376/375/374/393 FC True-rms Clamp Meters	•	•	•	•	•										•	•									
a3002 FC AC/DC Current Clamp Module	•	•	•	•	•										•	•									
a3003/a3004 FC DC Current Clamp Modules	•	•	•	•	•										•	•									
v3000 FC AC Voltage Module	•	•	•	•	•										•	•									
v3001 FC DC Voltage Module	•	•	•	•	•										•	•									
t3000 FC Temperature Module	•	•	•	•	•										•	•									
1555/1550C Insulation Resistance Testers	•																								
1742/1746/1748 Power Quality Loggers	•				•	•	•	•	•	•	•	•	•												
1732/1734/1736/1738 Electrical Loggers	•				•	•	•	•	•	•	•	•	•												
787B/789 ProcessMeter™	•																								
1587 FC Insulation Multimeter	•																								
1664 FC Installation Tester	•																								
805 FC Vibration Tester	•																								
125B/124B/123B ScopeMeters®	•																								
279 FC Thermal Multimeter	•																								
1630-2 FC Earth Ground Clamp	•																								
368/369 FC Leakage Current Clamps	•																								
ir3000 FC Wireless Connector								Con	nect	adan	ter to	· Elul	. 28.	7R 79	20 28	0 28	7 15	50C 1	555						

Fluke Connect (FC) available in selected countries. Contact your local Fluke distributors to find out more.



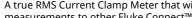
Fluke Connect®

Fluke a3000 FC, a3001 FC, a3002 FC **Wireless Current Clamp Modules**





Fluke a3002 FC



A true RMS Current Clamp Meter that wirelessly relays measurements to other Fluke Connect™ enabled master units.

a3000 FC Wireless AC Current Clamp Module

- Measure up to 400 A AC
- Logging function: record and save up to 65 000 readings
- Use as a standalone meter or as part of a system
- Inrush function
- Weight: 0.22 kg (7.76 oz)
- Three-year warranty







a3001 FC Wireless iFlex™ AC Current Module

An iFlex™ AC Current Module that wirelessly relays measurements to other Fluke Connect™ enabled master-units. It allows you to measure around awkward sized conductors and access wires more easily in tight spaces.

- Measure up to 2500 A AC
- Logging function: record and save up to 65 000 readings
- Use as a standalone meter or as part of a system
- Inrush function
- Weight: 0.22 kg (7.76 oz)
- Three-year warranty









a3002 FC Wireless AC/DC Current Module

For use with the i410 or i1010 AC/DC current clamps (sold separately). Wirelessly relay measurements from the i410 or i1010 clamp accessory to other Fluke Connect™ enabled master units.

- Measure up to 400 A AC or 400 A DC with i410
- Measure up to 600 A AC or 1000 A DC with i1010
- Use as a meter alone or as part of a system
- Record and save up to 65 000 readings
- Weight: 0.25 kg (8.81 oz)
- Three-year warranty







Resolution	Specifications	a3000 FC	a3001 FC	a3002 FC
Accuracy 400.0 A: 2 % ±5 digits (10 Hz to 100 Hz), 2.5 % ±5 digits (100 Hz to 100 Hz), 2.5 % ±5 digits (100 Hz to 500 Hz) Inrush Max displayed reading: 999.9 A Crest Factor (50Hz/60Hz) 3 at 500 A, 2.5 at 600 A, 1.42 at 1000 A, 2.5 at 1400 A, 1.42 at 2500 A, add 2% for C.F. > 2 LCD w/backlight 3 at 500 A, 2.5 at 600 A, 1.42 at 1000 A, 2.5 at 1400 A, 1.42 at 2500 A, add 2% for C.F. > 2 LCD w/backlight 1 sec minimum/adjustable by PC or FC App 2 AA, NEDA 15 A, IEC LR6 / 400 hours RF communications RF communication range Open air, unobstructed: Up to 20 m (65 ft). Obstructed, sheetrock wall: Up to 6.5 m (2° ft). Obstructed, concrete wall or steel electrical enclosure: Up to 3.5 m (11.5 ft) Operating & Storage temp -10° C to 50° C / -40° C to 60° C (14° F to 122° F / -40° F to 140° F) Temperature coefficient 0 4d 0.1 × (specified accuracy)/° C (<18° C or >28° C (<64° F or >82° F)) Operating humidity 0 5 to 95% (35° C to 40° C (95° F to 104° F)), 0% to 75% (35° C to 40° C (95° F to 104° F)), 0% to 75% (35° C to 40° C (95° F to 104° F)), 0% to 75% (35° C to 40° C (95° F to 104° F)). EMC EN 61326-1:2006 Safety compliance IEC 61010-1, 600 V CAT III, Pollution Degree 2 CAT III 600 V CAT IV 600 V, CAT III 1000 V Certifications CSA, CE, FCC: T68-FBLE IC: 6627A-FBLE Ingress Protection rating Jaw Opening 64 mm (2.5 in) 16.5 × 6.35 × 3.56 cm 16.5 × 6.35 × 1.4 cm 16.0 × 6.6 × 3.8 cm	Range	0.5 A to 400.0 A AC	0.5 A to 2500 A AC	
Accuracy 100 Hz), 2.5 % ±5 digits (100 Hz to 500 Hz) Inrush Max displayed reading: 999.9 A Crest Factor (50Hz/60Hz) 3 at 500 A, 2.5 at 600 A, 1.42 at 1000 A, 2.5 at 1400 A, 1.42 at 2500 A, add 2% for C.F. > 2 LCD w/backlight 3 at 500 A, 2.5 at 600 A, 1.42 at 1000 A, 2.5 at 1400 A, 1.42 at 2500 A, add 2% for C.F. > 2 LCD w/backlight 1 sec minimum/adjustable by PC or FC App 2 AA, NEDA 15 A, IEC LR6 / 400 hours RF communications RF communication range Open air, unobstructed: Up to 20 m (65 ft). Obstructed, sheetrock wall: Up to 6.5 m (2° ft). Obstructed, concrete wall or steel electrical enclosure: Up to 3.5 m (11.5 ft) Operating & Storage temp -10° C to 50° C / -40° C to 60° C (14° F to 122° F / -40° F to 140° F) Temperature coefficient Operating humidity Operating humidity Operating humidity Operating humidity IEC 61010-1, 600 V CAT III, Pollution Degree 2 CAT III 600 V CAT III, Pollution Degree 2 CAT III 600 V CAT III 1000 V CAT	Resolution		0.1 A	
Crest Factor (50Hz/60Hz) 3 at 500 A, 2.5 at 600 A, 1.42 at 1000 A, add 2% for C.F. > 2 3.0 at 1100 A, 2.5 at 1400 A, 1.42 at 2500 A, add 2% for C.F. > 2 3½ digits 3½ digits, 6000 counts, 4 sec update rate 1 sec minimum/adjustable by PC or FC App 2 AA, NEDA 15 A, IEC LR6 / 400 hours 2.4 GHZ ISM Band 3.5 minimum/adjustable by PC or FC App 3½ digits 3½ digits, 6000 counts, 4 sec update rate 2 AA, NEDA 15 A, IEC LR6 / 400 hours 2.4 GHZ ISM Band 3½ digits, 6000 counts, 4 sec update rate 2 AA, NEDA 15 A, IEC LR6 / 400 hours 2.4 GHZ ISM Band 3½ digits, 6000 counts, 4 sec update rate 2 AA, NEDA 15 A, IEC LR6 / 400 hours 2.4 GHZ ISM Band 3½ digits, 6000 counts, 4 sec update rate 2 AA, NEDA 15 A, IEC LR6 / 400 hours 2.4 GHZ ISM Band 3½ digits, 6000 counts, 4 sec update rate 3½ digits, 6000 counts, 4 sec update rate 3½ digits 3½ digits, 6000 counts, 4 sec update rate 3½ digits 3½ digits, 6000 counts, 4 sec update rate 3½ digits 3½ digits 3½ digits, 6000 counts, 4 sec update rate 3½ digits 3½ digits 3½ digits 3½ digits 6000 counts, 4 sec update rate 3½ digits 3½ digits 6000 counts, 4 sec update rate 3½ digits 6000 counts, 4 sec update rate 24A, NEDA 15 A, IEC LR6 / 400 hours 24A, NEDA 15 A, IEC LR6 / 400 hours 24A, NEDA 15 A, IEC LR6 / 400 hours 25 C C (540 F or 52 F) 25 C C C (540 F or 52 F) 25 C C C (540 F or 52 F) 25 C C C (540 F or 52 F) 25 C C C C C C C C C C C C C C C C C C	Accuracy	100 Hz), 2.5 % ±5 digits (100 Hz		DC: 0.5 % + 3
CFEST Factor (50H2/60H2) 1000 A, add 2% for C.F. > 2 C.F. > 2 C.F. > 2 3½ digits 3½ digits, 6000 counts, 4 sec update rate 1 sec minimum/adjustable by PC or FC App 2 AA, NEDA 15 A, IEC LR6 / 400 hours 2.4 GHZ ISM Band 2.4 GHZ ISM Band 3.5 Million	Inrush	Max	displayed reading: 999.9 A	
Sec update rate Sec update rate Sec update rate Log rate/interval 1 sec minimum/adjustable by PC or FC App Battery type/life 2 AA, NEDA 15 A, IEC LR6 / 400 hours RF communications 2.4 GHZ ISM Band Open air, unobstructed: Up to 20 m (65 ft). Obstructed, sheetrock wall: Up to 6.5 m (2° ft). Obstructed, concrete wall or steel electrical enclosure: Up to 3.5 m (11.5 ft) Operating & Storage temp -10° C to 50° C / -40° C to 60° C (14° F to 122° F / -40° F to 140° F) Temperature coefficient Add 0.1 × (specified accuracy)/° C (<18° C or >28° C (<24° F or >82° F)) Operating humidity O% to 90% (0° C to 35° C (32° F to 95° F)). O% to 75% (35° C to 40° C (95° F to 104° F)), O% to 45% (40° C to 50° C (104° F to 122° F)) EMC EN 61326-1:2006 EN 61326-1:2006 EN 61326-1:2006 Safety compliance IEC 61010-1, 600 V CAT III, Pollution Degree 2 Pollution Degree 2 Safety rating CAT III 600 V CAT IV 600 V, CAT III 1000 V Certifications CSA, CE, FCC: T68-FBLE IC: 6627A-FBLE Ingress Protection rating IP30 IP42 IP4	Crest Factor (50Hz/60Hz)			
Battery type/life 2 AA, NEDA 15 A, IEC LR6 / 400 hours RF communications RF communications Open air, unobstructed: Up to 20 m (65 ft). Obstructed, sheetrock wall: Up to 6.5 m (2' ft). Obstructed, concrete wall or steel electrical enclosure: Up to 3.5 m (11.5 ft) Operating & Storage temp -10° C to 50° C / -40° C to 60° C (14° F to 122° F / -40° F to 140° F) Temperature coefficient Add 0.1 × (specified accuracy)/° C (<18° C or >28° C (<64° F or >82° F)) Operating humidity Operating humidity Operating humidity EMC EN 61326-1:2006 Safety compliance IEC 61010-1, 600 V CAT III, Pollution Degree 2 CAT III 600 V CAT III, Pollution Degree 2 CAT III 600 V CAT III 600 V CAT III 1000	LCD w/backlight	3½ digits	5	3½ digits, 6000 counts, 4/ sec update rate
RF communications RF communications RF communication range Open air, unobstructed: Up to 20 m (65 ft). Obstructed, sheetrock wall: Up to 6.5 m (2' ft). Obstructed, concrete wall or steel electrical enclosure: Up to 3.5 m (11.5 ft) Operating & Storage temp -10° C to 50° C / -40° C to 60° C (14° F to 122° F / -40° F to 140° F) Temperature coefficient O% to 90% (0° C to 35° C (32° F to 95° F)). O% to 90% (0° C to 35° C (32° F to 95° F)). O% to 90% (0° C to 35° C (32° F to 104° F)). O% to 45% (40° C to 50° C (104° F to 122° F)) EMC EN 61326-1:2006 Safety compliance IEC 61010-1, 600 V CAT III, Pollution Degree 2 CAT III 600 V CAT IV 600 V, CAT III 1000 V Certifications CSA, CE, FCC: T68-FBLE IC: 6627A-FBLE Ingress Protection rating Jaw Opening 64 mm (2.5 in) 16.5 × 6.35 × 3.56 cm 16.5 × 6.35 × 1.4 cm 16.0 × 6.6 × 3.8 cm	Log rate/interval	1 sec minir	mum/adjustable by PC or F	С Арр
Open air, unobstructed: Up to 20 m (65 ft). Obstructed, sheetrock wall: Up to 6.5 m (2' ft). Obstructed, concrete wall or steel electrical enclosure: Up to 3.5 m (11.5 ft). Obstructed, concrete wall or steel electrical enclosure: Up to 3.5 m (11.5 ft). Obstructed, concrete wall or steel electrical enclosure: Up to 3.5 m (11.5 ft). Obstructed, concrete wall or steel electrical enclosure: Up to 3.5 m (11.5 ft). Obstructed, concrete wall or steel electrical enclosure: Up to 3.5 m (11.5 ft). Obstructed, concrete wall or steel electrical enclosure: Up to 3.5 m (11.5 ft). Steel electrical enclosure: Up to 3.5 m (11.5 ft). Obstructed, sheetrock wall: Up to 6.5 m (2' ft). Obstructed, sheetrock wall: Up to 6.5 m (2' ft). Obstructed, sheetrock wall: Up to 6.5 m (2' ft). Obstructed, sheetrock wall: Up to 6.5 m (2' ft). Obstructed, sheetrock wall: Up to 6.5 m (2' ft). Obstructed, sheetrock wall: Up to 6.5 m (2' ft). Obstructed, sheetrock wall: Up to 6.5 m (12' ft). Obstructed, sheetrock wall: Up to 6.5 m (12' ft). Obstructed, sheetrock wall: Up to 6.5 m (12' ft). Obstructed, sheetrock wall: Up to 6.5 m (12' ft). Obstructed, sheetrock wall: Up to 6.5 m (11.5 ft). Obstructed, sheetrock wall: Up to 6.5 m (12' ft). Obstructed electrical enclosure: Up to 3.5 m (11.5 ft). Obstructed, sheetrock wall: Up to 6.5 m (12' ft). Obstructed electrical enclosure: Up to 3.5 m (11.5 ft). Obstructed electrical enclosure: Up to 6.5 m (11.5 ft). Obstructed electrical enclosure: Up to 6.5 m (11.5 ft). Obstructed electrical enclosure: Up to 6.5 m (11.5 ft). Obstructed electrical enclosure: Up to 6.5 m (11.5 ft). Obstructed electrical enclosure: Up to 6.5 m (11.5 ft). Obstructed electrical enclosure: Up to 6.5 ft of 6.5 ft. Obstructed electrical enclosure: Up to 6.5 ft of 6.5 ft. Obstructed electrical enclosure: Up to 6.5 ft of 6.5 ft. Obstructed electrical electrical enclosure: Up to 6.5 ft. Obstructed electrical enclosure: Up to 6.5 ft. Obstructed electrical enclosure: Up to 6.5 ft. Obstructed electrical electrocal electrocal electrical elect	Battery type/life	2 AA, NI	EDA 15 A, IEC LR6 / 400 hou	ırs
The communication range The communicatio	RF communications		2.4 GHZ ISM Band	
Temperature coefficient Add 0.1 × (specified accuracy)/° C (<18° C or >28° C (<64° F or >82° F)) 0% to 90% (0° C to 35° C (32° F to 95° F)), 0% to 75% (35° C to 40° C (95° F to 104° F)), 0% to 45% (40° C to 50° C (104° F to 122° F)) EMC EN 61326-1:2006 Safety compliance IEC 61010-1, 600 V CAT III, Pollution Degree 2 Safety rating CAT III 600 V CAT IV 600 V, CAT III 1000 V Certifications CSA, CE, FCC: T68-FBLE IC: 6627A-FBLE Ingress Protection rating JP30 JP42 Jaw Opening 64 mm (2.5 in) 25.4 cm (1 in) coil 16.5 × 6.35 × 3.56 cm 16.5 × 6.35 × 1.4 cm 16.0 × 6.6 × 3.8 cm	RF communication range			
Operating humidity 0% to 90% (0° C to 35° C (32° F to 95° F)), 0% to 75% (35° C to 40° C (95° F to 104° F)), 0% to 45% (40° C to 50° C (104° F to 102° F)) EMC EN 61326-1:2006 Safety compliance IEC 61010-1, 600 V CAT III, Pollution Degree 2 Safety rating CAT III 600 V CAT IV 600 V, CAT III 1000 V Certifications CSA, CE, FCC: T68-FBLE IC: 6627A-FBLE Ingress Protection rating IP30 IP42 Jaw Opening 64 mm (2.5 in) 25.4 cm (1 in) coil 16.5 × 6.35 × 3.56 cm 16.5 × 6.35 × 1.4 cm 16.0 × 6.6 × 3.8 cm	Operating & Storage temp	-10° C to 50° C / -40° (C to 60° C (14° F to 122° F /	-40° F to 140° F)
Operating humidity 0% to 75% (35° C to 40° C (95° F to 104° F)), 0% to 45% (40° C to 50° C (104° F to 122° F)) EMC EN 61326-1:2006 Safety compliance IEC 61010-1, 600 V CAT III, Pollution Degree 2 IEC 61010-1, 600 V CAT IV/1000 V CAT IVI, 600 V CAT IVI 1000 V CAT IVI 1000 V CAT IVI 600 V, CAT IVI 1000 V CAT IVI 600 V, CAT IVI 600 V, CAT IVI 600 V, CAT IVI 600 V, CAT IVI 1000 V CAT IVI 600 V, CAT	Temperature coefficient	Add 0.1 × (specified acco	uracy)/° C (<18° C or >28° C	(<64° F or >82° F))
Safety compliance IEC 61010-1, 600 V CAT III, Pollution Degree 2 Pollution Degree 2 Pollution Degree 2	Operating humidity	0% to 75%	(35° C to 40° C (95° F to 10	4° F)),
Safety compliance Pollution Degree 2 Pollution Degree 2 Safety rating CAT III 600 V CAT IV 600 V, CAT III 1000 V Certifications CSA, CE, FCC: T68-FBLE IC: 6627A-FBLE Ingress Protection rating IP30 IP42 Jaw Opening 64 mm (2.5 in) 25.4 cm (1 in) coil First (MMM/D) 16.5 × 6.35 × 3.56 cm 16.5 × 6.35 × 1.4 cm 16.0 × 6.6 × 3.8 cm	EMC		EN 61326-1:2006	
Certifications CSA, CE, FCC: T68-FBLE IC: 6627A-FBLE	Safety compliance			
Ingress Protection rating IP30 IP42 Jaw Opening 64 mm (2.5 in) 25.4 cm (1 in) coil First (NAMVD) 16.5 × 6.35 × 3.56 cm 16.5 × 6.35 × 1.4 cm 16.0 × 6.6 × 3.8 cm	Safety rating	CAT III 600 V	CAT IV 600 \	/, CAT III 1000 V
Jaw Opening 64 mm (2.5 in) 25.4 cm (1 in) coil 63.5 × 6.35 × 3.56 cm 16.5 × 6.35 × 1.4 cm 16.0 × 6.6 × 3.8 cm	Certifications	CSA, CE,	FCC: T68-FBLE IC: 6627A-F	BLE
Size (Harward) 16.5 × 6.35 × 3.56 cm 16.5 × 6.35 × 1.4 cm 16.0 × 6.6 × 3.8 cm	Ingress Protection rating	IP30		IP42
	Jaw Opening	64 mm (2.5 in)	25.4 cm	n (1 in) coil
	Size (H×W×D)			

Up to 65 000 readings

i410/i1010 **PC Adapter** Current Clamp (for a3002 FC) Wireless PC Adapter **Recommended Kits** Bundle and Save Fluke Wireless a3000 FC **Current Clamp Kit** Fluke Wireless a3001 FC iFlex™ AC **Current Kit**

Recommended Accessories

Included Accessories

iFlex™ i2500 Flexible Current Probe (a3001FC), Magnetic Hanging Strap (a3002FC).

Ordering Information

Wireless iFlex™ AC FLK-a3001 FC **Current Module**

Wireless AC/DC FLK-a3002 FC **Current Module**

Wireless AC FLK-A3000 FC

Current Clamp Kit Wireless iFlex™ FLK-A3001 FC

AC Current Kit

Contact your local distributor for price and availability. fluke.com/findus

Fluke a3003 FC and a3004 FC **Wireless Current Clamp Modules**



Fluke a3002 FC

a3003 FC Wireless 2000 A DC **Current Clamp Module**

The a3003 is the tool of choice for high current DC ammeter applications that require measurements up to 2000 A DC.

The extra-wide jaw easily clamps around large conductors, typically found in mining, utility, marine, rail or other heavy manufacturing industries where large DC currents or large current carrying cables

The a3003's unique jaw construction allows for a wide measurement range meaning that you can accurately make measurements from 10 A DC to 2000 A DC.

- Measures from 10 A to 2000 A DC
 - Large jaw size (64mm (2.5 in)) for measuring large, high current
 - Logging function: record and save up to 65 000 readings
 - Weight: 0.65 kg (1.43 lb)
 - Three-year warranty



Fluke a3004 FC

A fully functional current clamp module, the a3004 tests or troubleshoots 4-20 mA control loops used with drive systems. PLC's, or building energy management systems. Now you can troubleshoot and repair 4-20 mA loops without breaking the loop or bringing down the system and save time.

a3004 FC Wireless 4-20 mA DC Clamp Module

- Send data to your laptop and go from logging to analysis and
- Use the Fluke Connect™ wireless USB adapter to collect logged data from remote modules by walking past a working module and downloading logged data
- Logging function: record and save up to 65 000 readings
- Perform for analysis with your PC and share the results using Fluke Cloud™ storage and ShareLive™ video call
- Weight: 0.3 kg (10.58 oz)
- Three-year warranty

Specifications	a3003 FC	a3004 FC
Range	1.0 A to 999.9 A DC 1000 A to 2000 A DC	0.05 mA to 20.99 mA DC 21.0 mA to 99.9 mA DC
Resolution	0.1 A 1 A	0.01 mA 0.1 mA
Accuracy	2% ±5 digits 2.5% ±5 digits	0.2% ±5 digits 1.0% ±5 digits
LCD w/backlight	3½ d	ligits
Log rate/interval	1 sec minimum/adjusta	ble by PC or front panel
Battery type	2 AA, NEDA	15A, IEC LR6
Battery life	120 hours	45 hours
Memory	Record up to 6	5 000 readings
RF communications	2.4 GHz I	SM Band
RF communication range	6.5 m (21 ft). Obstructed, concrete wall	5 ft). Obstructed, sheetrock wall: Up to or steel electrical enclosure: Up to 3.5 m 5 ft)
Operating Temperature	-10° C to 50° C ((14° F to 122° F)
Storage Temperature	-40° C to 60° C (-40° F to 140° F)
Temperature coefficient	Add 0.1 × (specified accuracy) /° C (< 18° C or > 28° C (<64° F or >82° F))
Operating humidity	90% at 35° C (95° F), 75% at 40°	C (104° F), 45% at 50° C (122° F)
Altitude	Operating 2000 m (6561 ft),	Storage 12 000 m (39,370 ft)
EMC	IEC 61	1326-1
Safety compliance	IEC 61010-1, CAT III	
Safety rating	CAT IV 600 V,	CAT III 1000 V
Certifications	cCSAus, CE, FCC: T68	-FBLE IC: 6627A-FBLE
Ingress Protection rating	IP	42
Jaw Opening	64 mm (2.5 in)	4.5 mm (0.18 in)
Size (H×W×D)	16.5 × 6.35 × 3.56 cm (6.5 × 2.5 × 1.4 in)	16.5 × 6.35 × 1.4 cm (6.5 × 2.5 × 0.5 in)

(6.5 × 2.5 × 1.4 in)

 $(6.5 \times 2.5 \times 0.5 \text{ in})$

Recommended Accessories







Get the FREE Fluke Connect[™] App!

By using the Fluke Connect™ App, you can efficiently and safely capture, store and share maintenance data without leaving the field. You can securely connect and collaborate with others, so they can see what you see.





Included Accessories

2000 A Clamp Attachment (a3003), 4-20 mA Clamp Attachment (a3004), Batteries, Hanging Strap, Quick Start

Ordering Information

FLK-a3003FC Wireless DC **Current Clamp**

Module

FLK-a3004FC Wireless DC 4-20 mA Current Module

Fluke Connect®



Fluke v3000 FC AC and v3001 FC **DC Wireless Voltage Modules**

AC220

Alligator Clips

Recommended Accessories

AC87

Heavy Duty Bus Bar Clip Set

PC Adapter

Fluke Connect™

Wireless PC Adapter

Bundle and Save

Recommended Kits

Fluke Wireless v3000 FC

Fluke Wireless v3001 FC

Fluke Wireless v3003 FC AC-DC

v3000 FC: TL224 Test Leads, AC285 Alligator Clips, Magnetic Hanging

v3001 FC: TL222 Test Leads, AC220 Alligator Clips, Magnetic Hanging

> Wireless AC Voltage Module

Wireless DC

Wireless AC

Voltage Kit

Wireless DC Voltage Kit Wireless AC-

DC Voltage

Measurement Kit

Voltage Module

Voltage Measurement Kit

Included Accessories

Ordering Information

FLK-v3000FC

FLK-v3001FC

FLK-V3000 FC

FLK-V3001 FC

FLK-V3003 FC

Strap.

AC Voltage Kit

DC Voltage Kit

































v3000 FC Wireless True-RMS AC Voltage Module A fully functional true-RMS Voltage Module that wirelessly relays

AC voltage measurements to other Fluke Connect™ enabled

- True-RMS AC Voltage Module
- Measure up to 1000 V
- Use as a standalone meter or as part of the system
- Record and save up to 65 000 readings
- Weight: 0.22 kg (7.76 oz)
- Three-year warranty

	AC	Voltage	
Range ¹	Resolution	Accur	acy ^{2,3,4}
Range	Resolution	45 Hz to 500 Hz	500 Hz to 1 kHz
6.00 V	0.001 V		
60.00 V	0.01 V	1.0% + 3	2.0% + 3
600.0 V	0.1 V	1.0% + 3	2.0% + 3
1000 V	1 V		

- 1 All AC voltage ranges are specified from 1% of range to 100% of range.
 2 Crest factor of ≤ 3 at full scale up to 500 V, decreasing linearly to crest factor ≤ 1.5 at 1000 V.
 3 For nonsinusoidal waveforms, add -{2% of reading + 2% full scale} typical, for crest factor up to 3. 4 Do not exceed 106 V-Hz.

v3001 FC Wireless DC Voltage Module

A fully functional DC Voltage Module that wirelessly relays DC voltage measurements to other Fluke Connect™ enabled master units.

- Measure up to 1000 V DC
- Use as a standalone meter or as part of the system
- Record and save up to 65 000 readings
- Weight: 0.26 kg (9.17 oz)
- Three-year warranty

	DO	C Voltage	
Function	Range	Resolution	Accuracy
mV DC	600.0 mV	0.1 mV	0.09% +3
	6.00V	0.001 V	
V DC	60.00 V	0.01 V	0.09% +3
V DC	600.0 V	0.1 V	
	1000 V	1 V	0.15% + 2

Specifications	v3000 FC / v3001 FC
LCD w/backlight	3½ digits, 6000 counts, updates 4/sec
Battery type	2 AA, NEDA 15A, IEC LR6
Log rate/Interval	Adjustable by PC from 1 sec to 1 hr, default 1 min
Battery life	400 hours
Memory	Record up to 65 000 readings
RF communications	2.4 GHz ISM Band
RF communication range	Open air, unobstructed: Up to 20 m (65 ft). Obstructed, sheetrock wall: Up to 6.5 m (21 ft). Obstructed, concrete wall or steel electrical enclosure: Up to 3.5 m (11.5 ft)
Operating temperature	-10° C to +50° C (14° F to 122° F)
Storage temperature	-40° C to +60° C (-40° F to 140° F)
Temperature coefficient	0.1 × (specified accuracy)/° C (< 18° C or > 28° C (<64° F or >82° F))
Operating humidity	90% at 35° C (95° F), 75% at 40° C (104° F), 45% at 50° C (122° F)
Altitude	Operating 2000 m (6561 ft), Storage 12000 m (39,370 ft)
EMC	EN 61326-1
Safety compliance	IEC 61010-1, IEC 61010-2-030
Safety rating	CAT IV 600 V, CAT III 1000 V
Certifications	CSA, CE, FCC: T68-FBLE IC: 6627A-FBLE
Ingress Protection (IP) rating	IP42
Pollution Degree	2
Size (H×W×D)	16.5 × 6.35 × 1.4 cm (6.5 × 2.5 × 0.5 in)

Fluke Connect (FC) available in selected countries. Contact your local Fluke distributors to find out more.

Fluke t3000 FC Wireless K-Type **Temperature Module**



member of a family of wireless test tools that let you share test data using the Fluke Connect™ app with ShareLive™ video call. Fluke Connect™ Wireless Test Tools put tools, not your body,

The Fluke t3000 FC Wireless K-Type Temperature Module is one

near live electrical panels. It's simple. Connect the t3000 FC wireless temperature module, or any of the other Fluke Connect $^{\text{\tiny{TM}}}$ remote modules, and read the results at a safe distance on the Fluke Connect™ Wireless Multimeter or a portable PC.

Better still, Fluke Connect™ test tools can send measurement data to your smartphone, so you can save and share measurements from the field with your team anytime, from anywhere.

Using t3000 FC temperature modules, you can:

- Spot temperature differences between three-phases in 1/3 the time of previous methods.
- Send data to your laptop and go from logging to analysis and
- Record over time to monitor circuit load changes for an hour, a
- Use the Fluke Connect™ wireless USB adapter to collect logged data from remote modules by walking past a working module and downloading logged data
- Perform analysis on your PC and share the results using Fluke Cloud™ storage and ShareLive™ video call. View data or graphs to get input from team members
- Logging function: record up to 65 000 readings
- Three-year warranty



Recommended Accessories

Specifications	t3000 FC
Range	K-type: -200° C to 1000° C (Temperature probe dependent)
Resolution	0.1° C (0.2° C)
Accuracy	±[0.5 % + 0.3° C (0.54° F) counts]
Input terminals	Thermocouple, K-type mini
LCD w/backlight	3 ½ digits
Log rate/interval	1 sec minimum/adjustable by PC and FC app on smart phone
Battery type	2 AA, NEDA 15A, IEC LR6
Battery life	400 hours
Memory	Record up to 65 000 readings
RF communications	2.4 GHz ISM Band
RF communication range	Open air, unobstructed: Up to 20 m (65 ft). Obstructed, sheetrock wall: Up to 6.5 m (21 ft). Obstructed, concrete wall or steel electrical enclosure: Up to 3.5 m (11.5 ft)
Operating temperature	-10° C to 50° C (14° F to 122° F)
Storage temperature	-40° C to 60° C (-40° F to 140° F)
Temperature coefficient	0.01% of reading +0.03° C per ° C (+0.54° F per °F)
Temperature scale	ITS-90
Operating humidity	90% at 35° C (95° F), 75% at 40° C (104° F), 45% at 50° C (122° F)
Altitude	Operating 2000 m (6561 ft), Storage 12 000 m (39,370 ft)
EMC	IEC 61326-1
Safety compliance	IEC 61010-1, 30 V , Pollution Degree 2
Certifications	CSA, CE, FCC: T68-FBLE IC: 6627A-FBLE
Ingress Protection rating	IP42
Size (H×W×D) and Weight	16.5 × 6.35 × 1.4 cm (6.5 × 2.5 × 0.5 in); 0.22 kg (7.76 oz)



Get the FREE Fluke Connect™ App!

By using the Fluke Connect™ App, you can efficiently and safely capture, store and share maintenance data without leaving the field. You can securely connect and collaborate with others, so they can see what you see.





Included Accessories

80PK-1 K-Type Bead Thermocouple Magnetic Hanging Strap.

Ordering Information

FLK-t3000FC

Wireless K-Type Temperature

FLK-T3000 FC

Wireless FC Temperature Kit

Fluke Connect®





Fluke Connect[™] Accessories





ir3000FC Connector





Fluke Connect™ ir3000 FC Connector

Connect your Fluke test tool with the ir3000 FC Connector and get all the benefits of the Fluke Connect™ mobile app. If you already have a Fluke 287/289 Digital Multimeter or Fluke 789 Process Tool or are considering purchasing one, add the ir3000 FC Connector so those tools can communicate with the Fluke Connect™ app.

- Fluke Connect™ ir3000 FC Connector allows you to wirelessly transfer data from Fluke 287, 289 Digital Multimeters, Fluke 789 ProcessMeters™ and Fluke 1550C/1555 Insulation Resistance Testers to your smart phone
- Fits over the IR port of the Fluke tools listed above
- Immediately enables you to graph, save, and share the tool's readings with your team from your smart phone
- Identify and diagnose problems quickly and confidently
- Efficiently and safely capture real-time readings of the primary display from the field
- Share results instantly with your team
- Upgradeable by USB
- Three-year warranty

Supported Fluke Tools:

- DMMs: 287, 289
- Process Tool: 789, 787B
- Insulation: 1550C, 1555

Supported Smart Phones:

- Android 5.0 & above
- iOS 13 & above



Specifications	ir3000 FC
Battery type	Two AAA Alkaline batteries, NEDA 24A, IEC LR03
Battery life	6 hours of continuous transmission
RF communications	2.4 GHz ISM Band
RF communication range	Open air, unobstructed: Up to 20 m (65 ft). Obstructed, sheetrock wall: Up to 6.5 m (21 ft). Obstructed, concrete wall or steel electrical enclosure: Up to 3.5 m (11.5 ft)
Temperature	Operating: -10° C to 50° C (14° F to 122° F) Storage: -20° C to 60° C (-4° F to 140° F)
Certifications	CE, FCC: T68-IRFBLE , IC: 6627A-IRFBLE
Size (H×W×L)	3.2 × 7.6 × 6.4 cm (1.25 × 3 × 2.5 in)
Compatibility*	Fluke 287, 289, 789, 1550C, 1555

^{*} At time of catalog print, Fluke's ir3000 FC Connector is currently compatible with the tools listed above. For updates on Fluke Connect™ test tool compatibility, go to **connect.fluke.com**



Get the FREE Fluke Connect[™] App!

By using the Fluke Connect™ App, you can efficiently and safely capture, store and share maintenance data without leaving the field. You can securely connect and collaborate with others, so they can see what you see.





Fluke Connect™

Wireless SD Card

Wireless PC

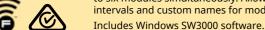
Adapter



Fluke Connect™ Wireless PC Adapter

Fluke 3000 FC Wireless Test Tools show real-time measurements from remote modules up to 20 meters away on your PC. Fluke FC wireless test tools work together to help you troubleshoot faster.

The PC3000 FC Adapter and Software help you understand the information you measure. When you need to get information back to a PC, the PC3000 FC Adapter and software wirelessly collect up to 65 000 sets of time stamped MIN/MAX/AVG readings from FC remote modules. the software can display live readings from up to six modules simultaneously. Allows custom logging intervals and custom names for modules.







Contact your local distributor for price and availability. fluke.com/findus

Ordering Information

FLK-PC3000 FC

FLUKE-IR3000 Fluke Connect™

FLK-FC-SD CARD Fluke Connect™



Digital Multimeters

C37XT

EVA Foam Hard Case

Digital Multimeter Selection Guide

		7	-			Wireless	Industria	Industrial Maintenance and	ice and					_	Automotive			ال		
Models	87 V	87 V MAX 283FC	Advanced meters	287	289	3000 FC	Field 175	Service meters	ers 179	113	114	115 116 HVAC	16 HVAC	117	meters	1577 1587 F	on resters	п 72	Specialty meters	alty meters
Basic features	S	XXIII A IO	2 504		202	2	_			2	<u>.</u>	2	24	÷	200		2 22	27 22	11 02	ZOTEC Y
Counts	20000	20000	0009	20000	00005	0009	0009	0009	0009	Н	Н	0009	0009	0009	20000	0009	0009	0009	20000	20000
Irrue-RM3 Fedanings Basic de accuracy AC bandwidth Auto/manual ranging Class 1 Zone 1 AEx la IIC 74 Class 1 AECD ABCD	ac 0.05 % 20 kHz •/•	ac 0.05 % 20 kHz •/•	AC 0.09 % 1 k Hz •/•	ac+dc 0.02 % 100 kHz •/•	ac+dc 0.02 % 100 kHz •/•	ac 0.09 % 1 kHz •/•	AC 0.15 % 1 kHz •/•	0.09 %	ac 0.09 % 1 kHz •/•	ac 0.5 % 1 kHz •/•	ac 0.5 % 1 kHz •/•	ac 0.5 % 1 kHz •/•	ac 0.5% 1 kHz •/•	0.5 % 1 kHz •/•	0.1% 5 kHz •/•	AC 0.2 % 60 Hz	90.09 % 5 kHz	0.1 % 30 kHz •/•	ac 0.05 % 20 kHz •/•	0.05 % 20kHz •/•
Measurements Voltage AC/DC	1000 V	1000 V	1000V / 1500 V	1000 V	1000 V	1000 V	1000 V	1000 V	1000 V	A 009	A 009	A 009	A 009	A 009	1000 V	1000 V	1000 V	1000 V	1000 V	1000 V
Current AC/DC	10 A	10 A	60 A w/ a283	10 A	10 A	400 mA	10 A	10 A	10 A			10 A	600 µА	10 A	10 A	400 mA	400 mA	10 A	10 A	10 A
Resistance	50 MD	50 MD	50 MD	500 MΩ		50 MD	20 MD	20 MD	50 MD	60 kD	40 MD	40 MΩ	40 MΩ	40 MΩ	50 MD	50 MΩ	50 MD	50 MΩ	50 MD	50 MD
Frequency	200 kHz	200 kHz	100 kHz	1 MHz 1 pF to		100 kHz	100 kHz	_	_	L		_	100 KHz	100 kHz	200 kHz		100 KHz	200 KHz	200 KHz	200 KHz
Capacitance	9999 µF	9999 µF	9999 µF	100 mF		9999 µF	9999 µF	9999 µr	_	11 6666	ת	and 6666	11 6666	and AAAA	9999 µr		70002	an sees	14 9999	10000 C
Temperature	(1994° F)	(1994° F)		(+2462°F)	(2462°F)				(752° F)				(752° F)				932°F)		(+1994° F)	(1994° F)
dB	02	90.09		60 dB							Ī				20.09			20.09	09	20.09
ity cycle/pulse width	-/•	-/•		÷				Ī	Ī		Ì				•			-/•	-	-/•
Continuity/diode test Motor Drive (ASD)	•	•	-/•	•	•												•	•		
Measurements	•	•			•												•		•	•
voltage detection																				
VCHEK''' LoZ: low input impedance					•					•	•		•	•						
Microamps	•	•		•	•								•					•	•	•
Number of insulation test																2	ın			
Meter Readiness Self-check			• •					Ī	Ī	Ī	Ī	Ī	Ī							
Display	l					I	I	I	I	I	I	I	I	I		I	I		I	I
Removable wireless display Dot matrix display				ŀ	•	•					l	Ī								
Dual display Analog bargraph		•		٠.	٠.	•														
Backlight	Two level	Two level	•	Two level	Two level	•		•	•	•	•	•	•	•	•	•	•	Two level	Two level	Two level
phical trend display minated keypad			•	•	•													•	•	
Diagnostics and data Min/Max recording with time	-/•	=/•	•/•	•/•	/-	-/•	-/•	-/•	=/•	=/•	_/•	-/•	=/•	-/•	-/•		=/•	=/•	-/•	-/•
mp Min/Max	0	250 us		250 115	250 115	-	_/_			_	_		_	_/_	250 118			_	250.118	250 118
Display Hold/Auto (Touch)	*	-/•	•	\$ *	**************************************	•	*	*	•	<u>-</u>			-	-/•	÷		·•	•	÷ .	*
ative reference	٠	•		٠	•	10.7		П	П	П	П	П	П	П				•	•	٠
Stand alone logging			(with			(with app)		Γ	Γ	l	l	r	l	Ī						
dinas memories			арр)	10000	10000	(with app)					Ī	Ī								
USB interface Other features				•	•															
Real time clock Automatic selection, AC/DC			•	•	•					•	•		•							
Closed case calibration	·	٠	• / no fuse				•	•								•	•			٠
Separate battery/fuse access	-/•	•/•	redalred	•	•/•	•	•/•	•/•	•	•	•	•	•	•	•	•/•	•/•	•	•/•	-/•
Operating temperature range	-120° C, 55° C (-4° F, 131° F)	-40° C, 55° C (-40° F, 131° F)	-10° C, 60° C (14° F, 140° F)	-20° C, 55° (-4° F, 131°	, 55° C 131° F)						-10° C,	-10° C, 50° C (14° F, 122°	F, 122° F)					-40° C, 55° C (-40° F, 131° F)	55° C 131° F)	-15° C, 50° C (5° F, 122° F)
Warranty and electrical safety Input alert IP Bating	• ID30	• TP67	1052	•	•	1054			П	1042	TD42	1DA2	TD 42	TD47				• 1967	• 1967	• 1067
Safety rating (IEC 61010) CAT	1000 V	1000 V	1500 V	1000 V	1000 V	1000 V	1000 V	1000 V	1000 V	‡ :	Н	V 009	V 009	V 009	1000 V	1000 V	1000 V	1000 V	1000 V	1000 V
Safety rating (IEC 61010) CAT	A 009	A 009	1000 V	V 009	V 009	A 009	A 009	A 009	A 009	A 009		Ī			A 009			A 009	V 009	V 009
ıv Limited lifetime warranty	•	•	٠	•	•	3 years	•	•		l	Г	Г	Γ	Ī	•		3 years	•		

Fluke 3000 FC Wireless Digital Multimeter

460.3

See it. Save it. Share it.

The Fluke 3000 FC True-RMS Wireless Multimeter and Fluke Connect™ wireless test tools put tools, not your body, near live electrical panels. It's simple. Just deenergize the cabinet, open the panel while wearing PPE and connect the remote modules, whether they are voltage modules, current clamps, flexible current loops or thermometers. Then read the results on the 3000 FC wireless modules, while reducing the risk of arc flash by separating yourself from hazardous measurement

Better still, the Fluke 3000 FC Series Wireless Multimeter can send measurement data to your smartphone, so you can save and share measurements from the field with your team anytime, from anywhere.

• Perform analysis with your smart phone and the FC App and share the results using Fluke Cloud™ storage and ShareLive™ video call. View data or graphs to get input from team members

Fluke Connect™ app has all the essentials for convenient

- AC and DC voltage measurements to 1000 V
- Three-year warranty

Functions	Range	Basic Accuracy
AC voltage	600.0 mV, 6.00 V, 60.00 V, 600.0 V, 1000 V	1.0% + 3
DC voltage	600.0 mV, 6.00 V, 60.00 V, 600.0 V, 1000 V	0.09% + 2
Continuity	600 Ω	Meter beeps at < 25 Ω, beeper detects opens or shorts of 250 µs or longer
Resistance	600 Ω, 600.0 Ω, 6.00 kΩ, 60.00 kΩ, 600.0 kΩ, 50.00 MΩ	0.5% + 1
Diode test	2.00 V	1% + 2
Capacitance	1000 nF, 10.00 μF, 100.0 μF, 9999 μF¹	1.2% + 2
mA AC (45 Hz to 1 kHz) ²	60.00 mA, 400.0 mA ³	1.5% + 3
mA DC ²	60.00 mA, 400.0 mA ³	0.5% + 3
Frequency	99.99 Hz, 999.9 Hz, 9.99 kHz, 99.99 kHz	0.1% + 1

 1 In the 9999 µF range for measurements to 1000 µF, the measurement accuracy is 1.2% + 2.

² Input burden voltage (typical): 400 mA input 2 mV/mA. ³ 400.0 mA accuracy specified up to 600 mA overload.

For all specifications: accuracy is specified for one year after calibration, at operating temperatures of 18° C to 28° C, with relative humidity at 0% to 90%. Accuracy specifications take the form of \pm [[% of Reading] + [Number of least significant digits]).

Wireless Multimeter from a safe distance. You can display the meter measurement, plus readings from up to three

Other capabilities of Fluke Connect™ and the 3000 FC

- Connect to your PC with USB dongle (optional) for detailed analysis and diagnosis

The Fluke 3000 FC Series Wireless Multimeter with the test and measurement troubleshooting.

- AC and DC current with 0.01 mA resolution
- Continuity, resistance, diode test, capacitance and frequency measurements
- MIN/MAX Recording
- CAT III 1000 V, CAT IV 600 V; IP54

Included Accessories

TL175 Test Leads, AC175 Alligator Clips, Manual Information Pack.

Recommended Accessories

TL238

SureGrip™ Test Lead Set

PC Adapter Fluke Connect™ Wireless PC Adapter

Bundle and Save Fluke 3000 FC General

Recommended Kits

Maintenance System

Voltage Detector Kit

Multimeter and Deluxe

Accessories Combo Kit

Combo Kit

Fluke 3000 FC Industrial System

Fluke 3000 FC HVAC System

Fluke 3000 FC/1AC-II Wireless

Multimeter and Non-Contact

Fluke 3000 FC/EDA2 Wireless

Fluke 3000 FC/TPAK Wireless **Multimeter and Magnetic Hanger**

Ordering Information

FLK-3000 FC FC Wireless Digital Multimeter FLK-3000 FC GM Wireless General Maintenance Kit

FLK-3000 FC IND Wireless Industrial System Kit

FLK-3000 FC Wireless HVAC System Kit HVAC

FLK-3000 Wireless Multimeter and FC/1AC-II Non-Contact

Voltage Detector Combo Kit

FLK-3000 FC/ Wireless Multimeter Deluxe EDA2

Accessories Combo

FLK-3000 FC/ Wireless Multimeter and **TPAK** Magnetic Hanger Combo Kit

Contact your local distributor for

Fluke Connect (FC) available in selected countries. price and availability. Contact your local Fluke distributors to find out more. fluke.com/findus

Fluke 280 Series True-RMS Logging Multimeters





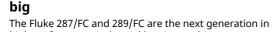












Find little problems before they become

high performance industrial logging multimeters.

These high performance industrial logging multimeters are designed to solve complex problems faster in many applications. Log data and review it graphically on-screen to help minimize downtime.

Communicate wirelessly with your smart phone directly from the field with the Fluke Connect™ app and get quick answers or next step authorizations faster than ever before. It's as simple as adding the Fluke ir3000 FC Connector to the standard Fluke 287 and 289 (connector

- Large 50 000 count, 1/4 VGA dot matrix display with white backlight
- Logging function with expanded memory for unattended monitoring of signals over time. Using on-board TrendCapture, users can graphically review logged readings without needing a PC. Store up to 10000 recorded events
- Save, name, and recall multiple logging sessions before PC download is necessary
- Field upgradeable and expandable meter lets you stay current as new capabilities are added.
- Two terminal 50 ohm range with 1 milliohm resolution, 10 mA source current. Useful for measuring and comparing differences in motor winding resistance or contact resistance (289/FC)
- Low-pass filter for accurate voltage and frequency measurements on adjustable speed motor drives and other electrically noisy equipment (289/FC)
- Limited lifetime manufacturer's warranty

Features	287	289
Multiple on screen displays	•	•
True-RMS AC bandwidth	100 kHz	100 kHz
dBV/dBm	•	•
DC mV resolution	1 μV	1 μV
Megohm range up to	500 MΩ	500 MΩ
Conductance	50.00 nS	50.00 nS
Continuity beeper	•	•
Elapse time clock/time of day clock	•	•
Min/Max/Avg/duty cycle/pulse width	•	•
Isolated optical DMM interface with USB PC connection	•	•
Auto/touch hold	•	•
Over 200 hours logging capacity with new power saving function	•	•
Lo Ohm capability	-	•
LoZ volts	-	•
Lo Pass Filter	-	•

Functions	Range	Basic Accuracy
AC volts or DC volts	50.00 mV, 500.00 mV, 5.00 V, 50.00 V, 500.00 V, 1000.0 V	0.02% 0.4% (True-RMS) (AC)
AC current DC current	500.00 μA, 5000.0 μA, 50.00 mA, 400.00 mA, 5.00 A, 10.00 A	0.15% 0.7% (True-RMS)
Temperature (excluding probe)	-200.0° C to 1350.0° C (-328° F to 2462° F)	1.0%
Resistance	$50.00~\Omega$, $500.00~\Omega$, $5.00~k\Omega$, $50.00~k\Omega$, $500.00~k\Omega$, $5.00~M\Omega$, $50.00~M\Omega$, $50.00~M\Omega$	0.05%
Capacitance	1.00 nF,10.00 nF, 100.0 nF, 1.00 μF, 10.00 μF, 100.0 μF, 1000 μF, 10.00 mF, 100 mF	1.0%
Frequency	99.99 Hz, 999.99 Hz, 9.99 kHz, 99.99 kHz, 999.99 kHz	0.005%

Contact your local distributor for price and availability. fluke.com/findus





Bundle and Save Fluke 287 FlukeView™ Forms Combo Kit

Fluke 287 FlukeView™ Forms Combo Kit with ir3000FC Connector

Fluke 289 FlukeView™ Forms Combo Kit

Fluke 289 FlukeView™ Forms Combo Kit with ir3000FC Connector

Included Accessories

TL175 Test Leads, AC175 Alligator Clips, Probe Holder, Six AA Batteries (installed), Calibration Certificate Sheet.

Ordering Inforn	Ordering Information				
FLUKE-287	True-RMS Industrial Logging Multimeter with TrendCapture				
FLUKE-289	True-RMS Electronics Logging Multimeter with TrendCapture				
FLUKE-287/FVF Kit	FlukeView™ Forms Combo Kit				
FLUKE-289/FVF Kit	FlukeView™ Forms Combo Kit				
FLUKE-287/FVF/ IR3000 Kit	Industrial Logging Multimeter and				
FLUKE-289/FVF/ IR3000 Kit	Industrial Logging Multimeter and Software Combo Kit				
FLUKE IR3000 FC	Fluke Connect™ ir3000 Connector				

Fluke 283 FC True-RMS Digital Multimeter

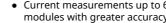




Fluke 283 FC

Weight

Battery life



Additional features:

• Current measurements up to 60 A AC/DC for safely troubleshooting individual strings with of modules with greater accuracy (when using a283 FC wireless current clamp)

your hands and the custom hard carrying case protects your investment while you transport it.

The CAT III 1500 V/CAT IV 1000 V True-RMS Fluke 283 FC Digital Multimeter and a283 FC True-RMS

Wireless Current Clamp set the new standard for DC environments up to 1500 V. Whether you're

The 283 FC/PV includes CAT III 1500 V DC safety-rated accessories so you can work confidently in

quickly make reliable, secure connections to modules or strings to test DC voltage up to 1500 V DC.

TL175-HV CAT III 1500 V/CAT IV 1000 V rated silicone TwistGuard™ test leads give you more flexibility when testing voltage, millivoltage, resistance, continuity, or capacitance on inverters, combiner

boxes, PV arrays, or individual PV modules. A bright backlit LCD screen and illuminated keypad make it easier to work in both direct and low light conditions. The included magnetic hanging kit frees up

higher voltage environments without compromising safety. Staubli MC4 test leads allow you to

working with a utility-scale solar photovoltaic (PV) array, wind power, an electric railway, or a data

center, the Fluke 283 FC has been designed to enhance safety and increase productivity while giving

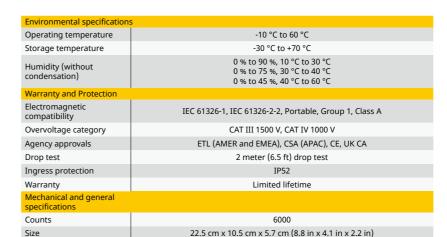
- Visual and audio polarity indicators with on/off function help prevent accidental module wiring
- User-defined limit gauge helps you make quick go/no-go troubleshooting decisions

• Highly accurate voltage measurements for precise frontline troubleshooting

- Unique multimeter readiness self-check helps ensure your meter is ready to test
- Save and log measurements to internal memory

0.7 kg (1.5 lb) > 150 hours typical, without backlight (Alkaline, 3 AA) > 100 hours typical when connected to wireless current clamp (Alkaline, 3 AA)

you accurate, reliable, and repeatable results.



Fluke Connect (FC) available in selected countries.

Contact your local Fluke distributors to find out more.



Included Accessories

FLUKE-283 FC/PV

283 FC TRMS Wireless Digital Multimeter, a283 FC 60A TRMS Wireless

AC/DC Current Clamp, Solar MC4 test Lead set, TL175-HV TwistGuard™

Silicone test leads, Premium carrying case, magnetic hanging strap, Limited Lifetime Warranty on the Multimeter, 1-year warranty on the

FLUKE-283 FC

clamp

283 FC TRMS Wireless Digital Multimeter, TL175-HV TwistGuard™ Silicone test leads, Premium carrying case, magnetic hanging strap, Limited Lifetime Warranty

Contact your local distributor for price and availability. fluke.com/findus





Fluke Connect (FC) available in selected countries.

Contact your local Fluke distributors to find out more.

Fluke 83V, 87V & 87V MAX Digital **Multimeters**



Performance and accuracy for maximum industrial productivity

Fluke 80-V Series is equipped with improved measurement functions, troubleshooting features, resolution and accuracy to solve more problems on motor drives, in-plant automation, power distribution, and electro-mechanical equipment.

The Fluke 87V and new 87V Max offer a unique function for accurate voltage and frequency measurements on adjustable speed motor drives and other electrically noisy equipment. A built-in thermometer conveniently allows you to take temperature readings without having to carry a separate instrument.

Electrical safety

All inputs are protected to CAT III 1000 V and CAT IV 600 V. They can withstand impulses in excess of 8000 V to help protect you from arc blast resulting from surges and spikes. Limited lifetime manufacturer's



Features	83V	87V	87V MAX
True-RMS AC voltage and current for accurate measurements on non-linear signals	-	•	•
Selectable filter for accurate voltage and frequency measurements on motor drives	_	•	•
6000 counts, 3-3/4 digits	•	•	•
4-1/2 digit mode for precise measurements (20000 counts)	_	•	•
Measure up to 10 A, 20 A for up to 30 seconds	•	•	•
Built in thermometer lets you carry one less tool (TC probe included)	_	•	•
Frequency to 200 kHz and % duty cycle	•	•	•
Resistance, continuity and diode test	•	•	•
$10000\mu\text{F}$ capacitance range for components and motor caps	•	•	•
Min/Max/Average recording with Min/Max Alert to capture variations automatically	•	•	•
Battery Life with Backlight off	400 h	nours	800 hours

		Basic Accuracy		
Functions	Range	83V	87V 87 MAX	
DC volts	600.0 mV, 6.00 V, 60.00 V, 600.0 V, 1000 V	0.1%	0.05%	
AC volts	600.0 mV, 6.00 V, 60.00 V, 600.0 V, 1000 V	0.5%	0.7% (True-RMS)	
DC current	600.0 μA, 6000 μA, 60.00 mA, 600.0 mA, 6.00 A, 10.00 A	0.4%	0.2%	
AC current	600.0 μA, 6000 μA, 60.00 mA, 600.0 mA, 6.00 A, 10.00 A	1.2%	1.0% (True-RMS)	
Temperature (excl. probe)	-200° C to 1090° C (-328° F to 1994° F)	_	1.0%	
Temperature Probe	-40° C to 260° C (-40° F to 500° F)	_	2.2° C (35.96° F) or 2%	
Resistance	600.0 Ω, 6.00 kΩ, 60.00 kΩ, 600.0 kΩ, 6.00 MΩ, 50.00 MΩ	0.4%	0.2%	
Capacitance	10.00 nF, 100.0 nF, 1.00 μF, 10.00 μF, 100.0 μF, 9999 μF	1.0%	1.0%	
Frequency	199.99 Hz, 1.99 kHz, 19.99 kHz, 199.99 kHz	0.005%	0.005%	

Recommended Accessories Magnetic Meter Test Lead Set Hanger TL175 TL224 TwistGuard™ Test SureGrip™ Silicone Insulated Test Leads AC285 SureGrip™ Alligator Clips AC Current Clamp **EVA Foam Hard Case Recommended Kits**

TL175 Test Leads, AC175 Alligator Clips, Yellow Holster (H80M excl. TPAK), 80BK-A Temperature Probe (87V/MAX only), 9 V Battery Installed (83V and 87V Only), Three AA batteries Installed (87V MAX only), User Manual and Technical Notes.		
Ordering Inform	ation	
FLUKE-83V	Industrial Multimeter	
FLUKE-87V	True RMS Industrial Multimeter	
FLUKE-87V/E2	Industrial Electrician Combo Kit	
FLUKE-87V-MAX	MAX True RMS Industrial Multimeter	
FLUKE-87V/ IMSK	Industrial Multimeter Service Kit	

Fluke 87V/E2 Industrial Electrician's Combo Kit

Included Accessories

Fluke 88V Automotive Multimeter





Size and Weight

lets you attach the meter to most steel surfaces for easy setup and viewing. The 88V is designed to be used in high energy environments like those found on hybrid vehicles.

• 0.1% DC accuracy

• 4-1/2 digit mode for precise measurements (20 000 counts)

The right meter for automotive diagnostics

measure voltage, current, continuity, and resistance, the 88V

This meter can take current measurements up to 20 A for 30

seconds and 10 A continuously. The optional magnetic hanger

The Fluke 88V Automotive Multimeter is the most powerful

automotive multimeter ever offered by Fluke. In addition to having all standard multimeter features like the ability to

can perform diode test and pulse width measurements.

- Measure up to 1000 V AC and DC
- Current measurements up to 10 A, 20 A for up to 30 seconds
- Built-in thermometer for temperature measurements when you need them (temperature probe included)
- Resistance, continuity and diode test
- RPM measurements with inductive pickup (included)
- Millisecond pulse width measurements for fuel injectors
- Magnetic hanger to attach meter to the vehicle and free your hands for other tasks
- Min/Max/Average recording with Min/Max Alert to capture variations automatically
- Peak Min/Max to record transients as fast as 250 µs
- Relative mode to remove test lead resistance from low ohms
- · Auto and manual ranging for maximum flexibility
- Autohold™ to capture stable readings with only one touch of the leads
- Large display digits and two-level bright white backlight for increased visibility
- Analogue bar-graph to track changing or unstable signals
- · Input Alert provides audible warning against wrong use of

•	Limited lifetime manufacturer's warranty		
Specifications	88V		
DC volts	Maximum Voltage: 1000 V Accuracy: ±(0.1% + 1) Best Resolution: 0.01 mV		
AC volts	Maximum Voltage: 1000 V Accuracy: ±(0.5% + 2) AC Bandwidth: 5 kHz Best Resolution: 0.01 mV		
DC Current	Maximum Amps: 10 A Amps Accuracy: ±(0.4% + 2) Best Resolution: 0.001 mA		
AC Current	Maximum Amps: 10 A Amps Accuracy: ±(1.2% + 2) Best Resolution: 0.001 mA		
Resistance	Maximum Resistance: 50 M Ω Accuracy: \pm (0.4% + 1) Best Resolution: 0.1 Ω		
Capacitance	Maximum Capacitance: 9999 μF Accuracy: ±(1% + 2) Best Resolution: 0.01 nF		
Frequency	Maximum Frequency: 200 KHz Accuracy: ±(0.005% + 1) Best Resolution: 0.01 Hz		
Duty Cycle	Maximum Duty Cycle: 99.9% Accuracy: within 2% per KHz + 0.1% Best Resolution: 0.1%		
Temperature Measurement	-200.0° C to 1090° C (-328° F to 1994° F), 1.0% excluding probe		
80BK Temperature Probe	-40° C to 260° C, 2.2° C (-40° F to 500° F) or 2% whichever is greater		
Conductance	Maximum Conductance: 60.00 nS Accuracy: ±(1.0% + 10) Maximum Resolution: 0.01 nS		
Operating Range	Operating Temperature: -20° C to 55° C (-4° F to 131° F) Storage Temperature: -40° C to 60° C (-40° F to 140° F)		

5.2 cm × 9.8 cm × 20.1 cm, 624 g

Recommended Accessories TLK281 TLK282 Test Lead Kit



80PK-27 SureGrip™ Surface Temperature Probe (requires 80AK)





TL82 Automotive Pir & Socket Adapter Set

Recommended Kits Bundle and Save



Fluke 88V/A Automotive **Multimeter Combo Kit**

Included Accessories

High-impact Holster, Test Leads, User Manual and Quick Reference Guide.

Ordering Information

FLUKE-88-5

Automotive Multimeter

Digital Multimeters

FLUKE-88-5/ A KIT

Automotive Multimeter Combo



Fluke 170 Series Digital Multimeters

Troubleshooting tools for electrical and electronic systems











Fluke 170 Series digital multimeters are the preferred solutions for professional technicians around the world. They include the features you need to troubleshoot and repair electrical and electronic systems, combined with Fluke's unparalleled reputation for ruggedness, reliability

- True RMS voltage and current measurements
- 0.09% basic accuracy (177, 179)
- 6000 count resolution
- Digital display with analog bargraph and backlight (177, 179)
- Manual and automatic ranging
- Display Hold and Auto Hold
- Frequency and capacitance measurements
- Resistance, continuity and diode measurements
- Temperature measurements (179)
- Min/max/average recording
- Smoothing mode allows filtering of rapidly changing inputs

1000

- Easy battery exchange without opening the case • Closed case calibration through front
- panel • Ergonomic case with integrated
- protective holster • IEC 61010-2-033 CAT III 1000V /
- CAT IV 600V
- Battery life: 200 hours typical for alkaline.
- Size: (H×W×L): 4.3 × 9.0 × 18.5 cm $(1.69 \times 3.54 \times 7.28 \text{ in})$
- Limited lifetime manufacturer's warranty

Electrical safety

All inputs are protected to measurement CAT III 1000 V and CAT IV 600 V. These meters can withstand transient impulses in excess of 8000 V to help protect you from arc blasts resulting from surges and spikes.

Features	179	177	175
Max voltage AC/DC	1000	1000	1000
True-RMS	•	•	•
Temperature	•	_	_
Basic DC accuracy	0.09%	0.09%	0.15%
Backlight	•	•	_
Min/Max/Avg	•	•	•
Compatible with ToolPak™ meter hanging kit with magnet	•	•	•
Limited lifetime warranty	•	•	•

Functions	Range	Best accuracy
DC voltage	600.0 mV, 6.00 V, 60.00 V, 600.0 V, 1000 V	±0.09% (177 and 179) ±0.15% (175)
AC voltage ¹	600.0 mV, 6.00 V, 60.00 V, 600.0 V, 1000 V	±1.0% of reading
DC current	60.00 mA, 400.0 mA, 6.00 A, 10.00 A ²	±1.0% of reading
AC current ²	60.00 mA, 400.0 mA, 6.00 A, 10.00 A ²	±1.5% of reading
Resistance	600.0 Ω, 6.00 kΩ, 60.00 kΩ, 600.0 kΩ, 6.00 MΩ, 50.00 MΩ	±0.9% of reading
Capacitance	1000 nF, 10.00 μF, 100.0 μF, 9999 μF	±1.2% of reading
Frequency ³	99.99 Hz, 999.9 Hz, 9.99 kHz, 99.99 kHz	±0.1% of reading
Temperature (Model 179)	-40°C to 400°C (-4° F to 752° F)	1.0% of reading

- 1 All AC voltage and AC current ranges are specified from 5% of range to 100% of range.
- 3 Voltage frequency is specified from 2 Hz to 100 kHz. Current frequency is specified from 2 Hz to 30 kHz



Included Accessories

Test Leads with 4 mm Lantern Tips, 9V Battery (installed) and User Manual, 80BK Temperature Probe (179 only).

Ordering Inform	iation
FLUKE-175	True RMS Digital Multimeter
FLUKE-177	True RMS Digital Multimeter
FLUKE-179	True RMS Digital Multimeter
FLUKE-179/ EDA2	Electronics Combo Kit
FLUKE-179/	Industrial

Kit

Fluke 27 II, 28 II and 28 II Ex Industrial IP67 **Digital Multimeters**



The 27 II, 28 II and 28 II Ex-AU Digital Multimeters are designed for tough work environments. All three meters have IP 67 waterproof and dustproof rating. They provide an extended operating temperature range of -15° C to 55° C (5° F to 131° F) and 95% humidity.

- Unique function for accurate voltage and frequency measurements on adjustable speed motor drives and other electrically noisy equipment (28 II, 28 II Ex)
- Built-in thermometer conveniently allows you to take temperature readings without having to carry a separate instrument (28 II, 28 II Ex)
- Hi-resolution 20 000 count display mode (28 II, 28 II Ex)
- Resistance and continuity. Relative mode to remove test lead resistance from low ohms measurements
- Large digit display with bright, two-level backlight
- Backlit keypad buttons allow for easy visibility in low-lit
- Optional magnetic hanger for easy setup and viewing, freeing your hands for other tasks
- Intrinsically safe certifications from the world's leading certification bodies (28 II Ex)
- Limited lifetime manufacturer's warranty



Features	27 II	28 II	28 II Ex
Tested to withstand a 3 m drop	•	•	•
Wide 1000 V measurement range	•	•	•
True-RMS AC voltage and current for accurate measurements on non-linear signals	_	•	•
Average responding voltage and current measurements	•	_	_
ow pass filter	_	•	•
Temperature	_	•	•
10 A continuous (20 A for 30 seconds)	•	•	•
Frequency and capacitance	•	•	•
Record signal fluctuations using the Min/Max function	•	•	•

Specifications		27 II	28 II	28 II Ex	
Specimento.is	Range		0.1 mV to 1000 V		
DC voltage	Accuracy	0.05% +1	0.05% + 1	0.05% + 1	
	Range		0.1 mV to 1000 V		
AC voltage	Accuracy	0.5% +3	0.7% +4	0.7% +4	
DC .	Range		0.1 μA to 10 A		
DC current	Accuracy	0.2% + 4	0.2% + 4	0.2% + 4	
AC current	Range		0.1 μA to 10 A		
AC current	Accuracy	1.5% + 2	1.0% + 2	1.0% + 2	
Resistance	Range	0.1 0 to 50 MΩ			
Display counts		6000	6000/19,999	6000/19,999	
Capacitance		1 nF to 9999 μF		10 nF to 9999 μF	
Frequency			0.5 Hz to 199.99 kHz		
Temperature		-	-200° C to 1090° C	(-328° F to 1994° F)	
Low pass filter (measur VSD's)	ement on	-	- Yes Yes		
Compliance		IEC 61010-2-033: CAT IV 600 V, CAT III 1000 V			
Measurement method A		Avg. responding	True-RMS	True-RMS	
Power		Three AA batteries			
Battery life		800 hours 400 hours		400 hours	
Dimensions (DxWxH)		6.35 x 10.0 x 19.81 cm (2.5 x 3.93 x 7.8 in)			
Weight with holster		700 g (24.69 oz)			

Specialty Models

Fluke 28 II Ex-ETL Intrinsically Safe True-RMS Multimeter

 CAT III 1000V/CAT IV 600V electrical safety

€⊋ II 2G Ex ia IIC T4













TPAK Magnetic Meter















Included Accessories

TL175 Test Leads, AC175 Alligator Clips, 80BK-A Temperature Probe (28 II), holster, user manual and three AA batteries (installed).

Ordering Information

FLUKE-27II Industrial Multimeter FLUKE-28II Industrial Multimeter

FLUKE-28IIEx Intrinsically Safe Industrial

Multimeter

Digital Multimeters



Fluke 77IV Digital Multimeter





Versatile multimeter for field service or bench repair

The Fluke 77IV Digital Multimeter has the features needed to repair most electrical and electronic problems. This meter is simple to use and has significant improvements over Fluke's original 70 Series with more measurement functions, conformance to the latest safety standards, and a much larger display that is easier to view.

- Wide 1000 V measurement range
- Average responding AC measurements
- 0.3% accuracy
- 10 amps continuous
- Frequency and capacitance
- Resistance and continuity
- Large display
- Backlight for work in dim areas
- Min/Max to record signal fluctuations
- Integral holster with probe holders
- Free your hands with the optional TPAK magnetic hanger
- Auto and manual ranging
- Limited lifetime manufacturer's warranty



Func	tion	Maximum	Max. resolution	Accuracy
Voltag	e DC	1000 V	1 mV	±(0.3%+1)
Voltag	je AC	1000 V	1 mV	±(2.0%+2)
Curre	nt DC	10 A	0.01 mA	±(1.5%+2)
Curre	nt AC	10 A	0.01 mA	±(2.5%+2)
Resist	ance	50 MΩ	0.1 Ω	±(0.5%+1)
Capaci	tance	9,999 μF	1 nF	±(1.2%+2)
Frequ	ency	99.99 kHz	0.01 Hz	±(0.1%+1)

Accuracies are best accuracies for each function

General Specifications

Accuracy is specified for one year after calibration, at operating temperatures of 18° C to 28° C, with relative humidity at 0% to 90%. Accuracy specifications take the form of \pm ([% of Reading] + [Counts]).

Specifications	77IV
V Maximum voltage between any terminal and earth ground	1000 V
Surge protection	8 kV peak per IEC 61010-2-033
Fuse for mA input	440 mA, 1000 V FAST Fuse
Fuse for A input	11 A, 1000 V FAST Fuse
Display	Digital: 6000 counts, updates 4/sec
Bar Graph	33 segments, updates 32/sec
Frequency	10 000 counts
Capacitance	1000 counts
Operating altitude	2000 m
Storage altitude	12 000 m
Operating temperature	-10° C to 50° C (14° F to 122° F)
Storage temperature	-40° C to 60° C (-40° F to 140° F)
Temperature coefficient	0.1 × (specified accuracy/° C (< 18° C or > 28° C) (< 64.4° F or > 82.4° F))
Electromagnetic compatibility (EN 61326-1:1997)	In an RF field up to 3 V/m, accuracy = specified accuracy except in temperature: specified accuracy ±5° C
Relative humidity (maximum non-condensing)	90% to 35° C; 75% to 40° C; 45% to 50° C (90% to 95° F; 75% to 104° F; 45% to 122° C)
Battery life	400 hours
Size (H×W×L) and Weight	185 × 90 × 43 mm (7.28 × 3.54 × 1.70 in); 420 g (14.81 oz)
Safety compliance	IEC 61010-2-033; CAT III 1000 V, CAT IV 600 V
Certifications	CSA



Included Accessories TL75 Test Leads, 9V battery (installed), manual information pack **Ordering Information**

Digital Multimeter

Contact your local distributor for price and availability. fluke.com/findus

FLUKE-77-4

Fluke PRV240 and PRV240FS Proving Units





Fluke PRV240 FS

Fluke PRV240 Proving Unit

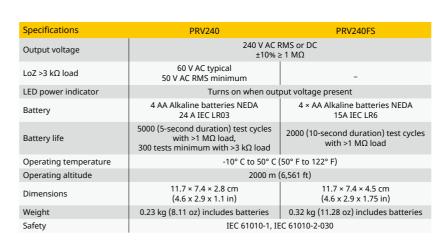
The Fluke PRV240 Proving Unit is a portable, pocket-sized, battery-powered voltage source. It is unique in that it sources stable AC and DC voltages for both LoZ and HiZ

- Sources both AC and DC steady-state voltage supplies 240 V DC/AC
- A single LED indicates functionality, making this unit a simple-to-use solution for verification of your test tool
- Compatible with both high impedance or low impedance multimeters, clamp meters or two pole testers
- Voltage is sourced through recessed contacts that are activated when tested probes are inserted to avoid accidental contact
- Includes Magnetic Hanging Strap
- Long battery life 5000 tests per set of four AA batteries
- One-year warranty

Fluke PRV240FS Proving Unit

The Fluke PRV240FS Proving Unit is specifically built to prove the functionality of the FieldSense™ measurement on the Fluke T6 Electrical Testers. It also provides AC and DC voltages for other HiZ instruments in your tool box.

- Reduces the risk of shock and arc flash by validating the functionality of test tools without placing yourself in a potentially hazardous electrical environment
- Can prove functionality of the FieldSense™ measurement on the T6 Electrical Testers
- Sources both AC and DC steady-state voltage supplies 240 V DC/AC
- A single switch and a set of LEDs indicate functionality of both the FieldSense™ "no-test-lead" voltage measurement capability, plus standard AC and DC measurements with test leads
- Compatible with high impedance multimeters or clamp meters
- Voltage is sourced through a central hub designed to test the T6 FieldSense™ open fork, as well as through recessed contacts that are activated when test probes are inserted to avoid accidental contact
- Long battery life 2000 tests per set of four AA batteries
- One-year warranty





Recommended Accessories

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TPAK

Magnetic Meter

Hanger



Included Accessories

TPAK Hanging Strap, four AA batteries, instruction sheet.

Ordering Information

PRV240 **Proving Unit** PRV240FS **Proving Unit**



Fluke 8808A Precision Bench Multimeter





Fluke 8808





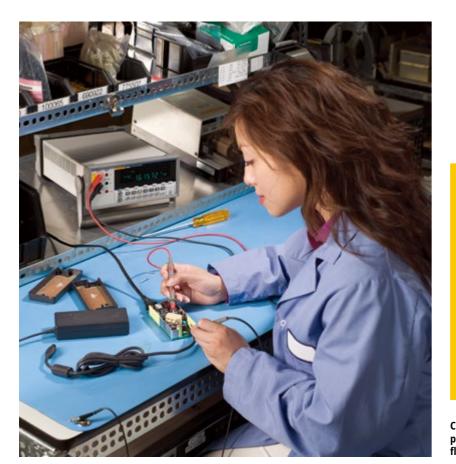
Fluke 8808A 5.5 Digit Multimeter

The Fluke 8808A multimeter has a broad range of functions, measuring volts, ohms and amps with a basic V DC accuracy of 0.01%. The meter is easy to use and includes innovative functions to simplify routine testing and precision 4-wire resistance measurements.

- 5.5 digit resolution
- Up to 0.01% accuracy
- Dual measurement display
- Sensitive DC leakage current ranges
- Front panel setup keys
- TL2X4 wire measurement technique
- Three-year warranty



Specifications	8808A
Display	Dual
Resolution (digits)	5.5
Measurements	AC Volts, DC Volts, AC Current, DC Current, Frequency, Ohms, Continuity, Diode
Basic V DC accuracy (% Reading +% Range)	0.01 + 0.003
Advanced measurements/ functions	2x4 wire ohms, freq, i-Leakage dedicated setup keys
Math	Null, dBm, dB, Min, Max
Analysis	Limit Compare
USB memory device port	No
Interfaces	RS-232, USB via optional adapter
Safety rating	IEC 61010-2-030: CAT II 600 V, 1000 V Max



Included Accessories

LCI line power cord, test lead set, spare line power fuse, programmers manual/ user manual on CD-ROM, 884X-USB USB to RS232 cable adapter, FVF-BASIC FlukeView™ Forms Software Basic Version.

Ordering Information

FLUKE 8808A

5.5 Digit Multimeter5.5 Digit Multimeter

FLUKE 8808A/

5.5 Digit Multimeter (Software + Cable)

Calibration & Service Agreement units also available.



Clamp Meters

FLUKE

1500

Fluke 393 FC

293

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The World's First CAT III 1500 V Solar Clamp Meter

The Fluke 393 FC CAT III 1500 V/CAT IV 600 V True-RMS Clamp Meter with iFlex is designed for technicians who work in DC environments up to

1500 V: solar arrays, wind power, electric railways, and data center battery banks for uninterruptible power supplies. The Fluke 393 FC meets the IEC 61730-1 standard for overvoltage category III photo-voltaic panels and extends the safe measurement range up to 1500 V DC.

Make DC power measurements quickly and accurately with a tool that does it all: V, A and Power (kVA). Ensure PV panels are properly installed with the help of an audio beep to indicate incorrect polarity. Visual Continuity makes continuity testing easier in low-light situations.

- Safe and accurate voltage measurement up to 1500 V
- Thin jaw for access to cables in crowded combiner boxes
- IP54 rating for dust and water making it ideal for working outdoors on solar arrays and wind power
- DC power measurement, showing readings in kVA
- Audio and Visual Polarity to ensure photovoltaic panels are properly installed
- Visual Continuity that provides a bright green indicator light in the display for working in dark and noisy
- Seamless logging, sharing and reporting of test results via Fluke Connect software
- Three-year warranty

Range	Accuracy	
600.0 kVA 1500 kVA	2% + 2.0 kVA 2% + 20 kVA	
999.9 A	±(2% + 5 digits)	
2500 A	±(3% + 5 digits)	
999.9 A	±(2% + 5 digits)	
1000 V	±(1% + 5 digits)	
1500 V	±(1% + 5 digits)	
500.0 mV	±(1% + 5 digits)	
0 to 1000 μF	±(1% + 5 digits)	
60 kΩ	±(1% + 5 digits)	
34 mm	(1.33 in)	
Ye	es	
Ye	es	
Yes /	/ Yes	
Yes		
Dual line		
IEC 61010-2-032: CAT III 1500 V / CAT IV 600 V		
IEC 61010-031: CAT III 15	000 V insulated test leads	
	600.0 kVA 1500 kVA 999.9 A 2500 A 999.9 A 1000 V 1500 V 500.0 mV 0 to 1000 μF 60 kΩ 34 mm Ye Yes Yes Under the companies of	



SATIV

Work in the **Solar Industry?** Visit the link to learn

how Fluke tools can help with the future of



Fluke Connect (FC) available in selected countries. Contact your local Fluke distributors to find out more.



TL1500DC



PVLEAD3 MC4 Solar Power Clamp Set



PVLEAD1

MC4 to 4 mm Test Lead Set

Pack30 Professional Tool



Get the FREE Fluke Connect[™] App!

By using the Fluke Connect™ App, you can efficiently and safely capture, store and share maintenance data without leaving the field. You can securely connect and collaborate with others, so they can see what you see.







Included Accessories

CAT III 1500 V rated test leads, 18-inch iFlex™ Flexible Current Probe, ToolPak Magnetic Meter Hanger, premium carrying case, two AA batteries.

Ordering Information

FLUKE-393 FC

CAT III 1500 V True-RMS AC/DC Clamp Meter with iFlex™



Fluke 377 FC and 378 FC Clamp Meters with FieldSense[™]







Fluke 377 FC



Voltage and Current Measurements with FieldSense™ Technology

The new Fluke 377 FC and 378 FC are the first industrial clamp meters that use FieldSense™ technology to make accurate non-contact voltage measurements, thereby enhancing safety and improving productivity. Get a full set of phaseto-phase voltage and current measurements along with auto-calculation of phase rotation by clamping the jaw over each of the threephase conductors. The Fluke 378 FC includes the unique power quality indicator that automatically senses power quality issues related to current, voltage and power factor, enabling you to quickly determine if the fault is upstream or downstream.

- Safe and accurate voltage measurement without metallic contact
- View both voltage and current measurements simultaneously on dual display
- Complete three-phase measurements 50% faster than other industrial clamp meters
- Phase rotation information is auto calculated (in Fluke Connect™ App)
- Screen equipment for power quality problems with PQ Indicator (Fluke 378 FC only)
- Easy logging, seamless data transfer and reporting with Fluke Connect™
- Three-year warranty

Features	Range	377 FC	378 FC	
Current AC	999.9 A	±(2% + 5	digits)	
(clamp jaw/iFlex™)	2500 A	±(3% + 5 digits)		
Current DC	999.9 A	±(2% + 5 digits)		
Voltage AC (FieldSense™)	1000 V	±(3% + 5 digits ±(5% + 5 digits		
Voltage AC (Test Leads)	1000 V	±(1% + 5 digits)		
Voltage DC	1000 V	±(1% + 5 digits)		
Capacitance	1000 μF	±(1% + 4 digits)		
Resistance/Continuity		60 kΩ / Yes		
Jaw opening		34 mm (1.33 in)		
Three-phase calculations		Ye	S	
Power Quality indicator		No Yes		
Phase Rotation		Ye	S	
Visual Continuity		Yes		
Data Logging		Yes		
Low pass filter (for VFD)		Yes		
Safety Compliance		IEC 61010-2-032: CAT III 1000 V / CAT IV 600 V		

Recommended Accessories SureGrip™ Electrical Test Lead Set Backpack TL175 AC285 TwistGuard™ SureGrip™ Alligator Test Leads Clips

FieldSense™ **Enabled** Non-contact voltage measurement made possible with Fluke's FieldSense™ technology Get voltage measurements faster, easier and safer than ever. No direct electrical contact means less potential for electric shocks and arc flash.



Included Accessories

Test Leads, TwistGuard™ Test Probes, black grounding clip, 18-inch iFlex™ Flexible Current Probe, ToolPak Magnetic Meter Hanger, premium carrying case, two AA batteries and quick reference guide.

Ordering Information

FLUKE-377 FC Non-Contact

Voltage True-RMS AC/DC Clamp Meter

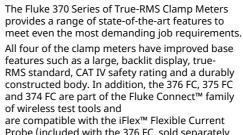
FLUKE-378 FC Non-Contact

Voltage True-RMS AC/DC Clamp Meter

Contact your local distributor for price and availability. fluke.com/findus

Fluke 370 Series Clamp Meters





Probe (included with the 376 FC, sold separately for the 375 FC and 374 FC), and provide increased measurement readings to 1000 A.

Includes a three-year warranty.





Functions	Range	374 FC	375 FC	376 FC
Current AC Assuras	0 to 600.0 A	±(2% + 5 digits)	±(2% + 5 digits)	-
Current AC Accuracy	0 to 999.9 A	-	-	±(2% + 5 digits)
Current AC Accuracy (iFlex™)	0 to 2500 A	±(3% + 5 digits)	±(3% + 5 digits)	±(3% + 5 digits)
Current DC	0 to 600.0 A	±(2% + 5 digits)	±(2% + 5 digits)	-
Current DC	0 to 999.9 A	-	-	±(2% + 5 digits)
Voltage AC	0 to 600.0 V	-	-	-
voltage AC	0 to 1000 V	±(1% + 5 digits)	±(1% + 5 digits)	1±(% + 5 digits)
Voltage DC	0 to 600.0 V	-	-	-
voltage DC	0 to 1000 V	±(1% + 5 digits)	±(1% + 5 digits)	±(1% + 5 digits)
Resistance range	-	0 to 6000 Ω	0 to 6000 Ω	0 to 60 kΩ
Jaw opening	-	34 mm (1.33 in)	34 mm(1.33 in)	34 mm(1.33 in)
Max. wire size	-	750 MCM	750 MCM	750 MCM
Frequency measurement range	-	-	500 Hz	500 Hz
Safety Compliance (61010-2-032)	-	CAT III 1000 V, CAT IV 600 V	CAT III 1000 V, CAT IV 600 V	CAT III 1000 V, CAT IV 600 V

Fluke iFlex™ Flexible Current Probe



Unprecedented measurement flexibility

The iFlex™ Flexible Current Probe expands the measurement range of select Fluke Clamp Meters to 2500 A AC while providing increased display flexibility, improved wire access and the ability to measure awkward-sized conductors. Available in 18-inch and 10-inch coil sizes.

- Compatible with Fluke 374 FC, 375 FC, 376 FC and 381
- CAT IV 600 V, CAT III 1000 V
- 7.5 mm (0.29 in) coil diameter allows measurement in tight spaces
- 1.8 m (5.9 ft) cable
- Three-vear warranty

Visit fluke.co/clamps for additional specifications.

Fluke Connect (FC) available in selected countries. Contact your local Fluke distributors to find out more.

Recommended Accessories



TL223 SureGrip™ Electrical Test Lead Set



TL175 TwistGuard¹ Test Leads





C37XT

EVA Foam Hard Case

Fluke Connect™ **Enabled**



The Fluke 376, 375 FC, and 374 FC are part of the Fluke Connect™ family of wireless test tools.

- Trend measurements, pinpoint intermittent faults and transmit results wirelessly by connecting your meter to your phone via the Fluke Connect™ mobile app
- Create and send reports right from the field
- Stay safely away from the arc flash zone through Bluetooth connectivity

Included Accessories

18-inch iFlex™ Flexible Current Probe (Fluke 376 FC only), Test Leads, Soft Carrying Case, Instruction Card, Safety Information Sheet, two AA Alkaline Batteries.

Ordering Information

FLUKE 374 FC True-RMS Clamp

FLUKE 375 FC True-RMS Clamp meter

FLUKE 376 FC True-RMS Clamp

meter

i2500-10 Flexible Current Probe 25 cm (9.84 in) iFlex™

i2500-18 Flexible Current Probe 46 cm (18.11 iFlex™

Calibration & Service Agreement units also available.

Contact your local distributor for price and availability.

fluke.com/findus



27

Fluke Connect (FC) available in selected countries. Contact your local Fluke distributors to find out more.

Clamp Meters

Fluke 320 Series True-RMS Clamp Meters









Go to work with the best

True-RMS measurements and optimized ergonomics make the Fluke 320 Series True-RMS Clamp Meters the best general troubleshooting tools for commercial and residential electricians. The 323 and 325 are designed to verify the presence of load current, AC voltage and continuity of circuits, switches, fuses and contacts. These small and rugged clamp meters are ideally suited for current measurements up to 400 A in tight cable compartments. The Fluke 325 also offers DC current and frequency measurements.

- 400 A AC current measurement (AC and DC current; 325 only)
- 600 V AC and DC voltage measurement
- True-RMS AC voltage and current for accurate measurements on non-sinusoidal signals
- Resistance measurement to up to 40 k Ω with continuity detection (325 only)
- Temperature and capacitance measurement (325 only)
- Frequency measurement (325 only)
- Slim, ergonomic design
- Large, easy to read backlit display (325 only)
- CAT IV 300 V/CAT III 600 V safety rating
- Hold button

Two-year warranty					
	Desidential/Communical Electrical	Links Indicated at	ı		
	Residential/Commercial Electrical 323	Light Industrial 325	ı		
Measurements	323	323			
AC current	_	_	-		
	•	•	1		
AC voltage	•	•			
Resistance	•	•			
Continuity	•	•	-		
DC voltage	•	•	2		
DC current	-	•			
True-RMS	•	•	- 3		
Frequency	-	•			
Min/Max/Avg	-	•	ď		
Temperature	-	•			
Capacitance	-	•			
Display					
Display hold	•	•			
Backlight	-	•			
Specifications					
Jaw opening	30 mm (1.18 in)				

Specifications				
Jaw opening	30 mm (1.18 in)			
Max wire size	600 MCM			
Current range AC RMS	0 to 400.0 A			
Accuracy AC current (50/60 Hz)	±(2.0% + 5 digits)	±(2.0% + 5 digits)		
AC response	True-RMS			
Current range DC	- 0 to 4			
Accuracy DC current	- ±(2.0% + 5			
Voltage range AC	0 to 600.0 V			
Accuracy AC voltage	±(1.5% + 5 digits)			
Voltage range DC	±600 V			
Accuracy DC voltage	±(1% + 5 digits)			
Resistance range	0 to 4000 Ω 0 to 40 kΩ			
Frequency measurement range	- 500 Hz			





Included Accessories

Test Leads, Soft Case, User Manual.

Ordering Information

FLUKE 323 True-RMS Clamp Meter

True-RMS Clamp FLUKE 325

Contact your local distributor for price and availability. fluke.com/findus

Fluke 355 AC/DC True-RMS Clamp Meter

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Versatile, professional and accurate

Confidently take reliable readings with the True-RMS Fluke 355 Clamp Meters—the tools of choice for high current clamp-on amp meter measurements up to 2000 A.

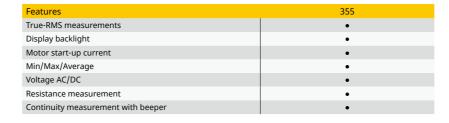
- Reliably handle a wide range of high-current applications with 2000 A AC+DC True-RMS, 1400 A AC, and 2000 A DC
- Large 58 mm (2.28 in) jaw
- Inrush current measurement
- High voltage measurement of 1000 V AC+DC True-RMS, 600 V AC, and 1000 V DC
- Resistance to 400 $k\Omega$
- · Continuity beeper
- Frequency measurement to 1 kHz
- Selectable low-pass filter mode
- Min/Max/Avg
- Large display with backlight
- Three-year warranty











Functions	Range	355		
Current AC/DC	40.00 A 0-400.0 A 2000 A; 1400 AC RMS	±(1.5% + 15 digits) ±(1.5% + 5 digits) ±(1.5% + 5 digits)		
Crest Factor		2.4		
Voltage AC/DC	4.00 V 40.00 V 400.0 V 0-600 V AC RMS 1000 V DC	±(1% + 10 digits) ±(1% + 5 digits) ±(1% + 5 digits) ±(1% + 5 digits) ±(1% + 5 digits)		
Resistance	0-400.0 Ω 0-4.00 kΩ 0-40.00 kΩ 0-400.0 kΩ	±(1.5% + 5 digits) ±(1.5% + 5 digits) ±(1.5% + 5 digits) ±(1.5% + 5 digits)		
Continuity beeper	Appr. ≤ 30 Ω	±(1.5% + 5 digits)		
Frequency	5.0 Hz to 100.0 Hz	±(0.2% + 2 digits)		
Power Supply	6 × 1.5 V AA NED	A 15A or IEC LR6		
Battery life	100 hours (with typica	l usage, backlight off)		
Size (HxWxD)	300 × 98 × 52 mm (11.81 × 3.85 × 2.04 in)			
Jaw opening	58 mm (2.28 in)			
Weight	0.81 kg (1.78 lb)			
Safety Compliance (IEC 61010-2-032)	600 V CAT IV, 1000 V CAT III			

Recommended Accessories Fluke 355



Thermocouple

Module

TP38



FTP-1 Fuse Test Probe Set



TL175



TLK-225



SureGrip™ Electrical Test Lead Set

Large Soft Case



Included Accessories

Fluke 355: C43 Soft Meter Case, six AA Batteries, TL224 SureGrip™ Silicone Test Lead Set, TP2 Slim Reach Test Probe Set (2 mm), AC285 SureGrip™ Alligator Clip Set, User Manual.

Ordering Information

FLUKE 355

True RMS AC/DC Clamp Meter

Clamp Meters



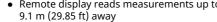
Fluke 381 Remote Display True-RMS AC/DC Clamp Meter with iFlex





The Fluke 381 True-RMS AC/DC Clamp Meter combines iFlex™ flexibility with remote reading capability for the ultimate in innovation and safety. Now one technician can do jobs that would otherwise require two people. Clamp the Fluke 381 around a conductor, remove the display and walk across the room to operate controls or remove protective equipment, all while watching real-time

expands the measurement range to 2500 A AC while providing increased display flexibility. With a cord that runs 6 feet, you can finally measure those tight spaces, awkward sized conductors and disorganized wires.



- iFlex™ Flexible Current Probe included,18 inch circumference
- 999.9 A AC and DC current measurement with

- Min/Max/Avg and inrush recording
- IEC 61010-2-032: CAT IV 600 V, CAT III 1000 V
- Three-year warranty

Fluke 365 Detachable Jaw True-RMS AC/DC Clamp Meter









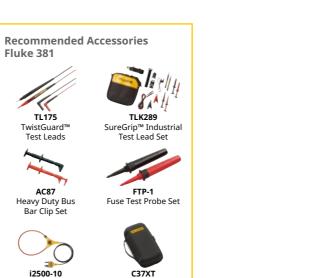
The iFlex™ Flexible Current Probe (included)

- Remote display reads measurements up to
- 2500 A AC current measurement with iFlex™
- 1000 V AC and DC voltage measurement
- Frequency measurement to 500 Hz
- 60 kΩ resistance measurement

Where rugged meets reliable

The Fluke 365 True-RMS AC/DC Clamp Meter offers a small, detachable jaw with 1.2 meters of cable that makes it easy to take and read measurements in tight or hard-to-reach places.

- 200 A AC and DC current measurement with detachable jaw
- 600 VAC and DC voltage measurement
- Detachable jaw makes accessing wires and viewing the display easier
- Built in flashlight allows for easy illumination and identification of wires
- IEC 61010-2-032: CAT III 600 V
- Compact design fits in your hand and can be used while wearing protective equipment
- State-of-the-art signal processing allows for use in noisy electrical environments while providing stable readings
- Large, easy to read, backlight display automatically sets the correct measurement range so you do not need to change switch positions while taking a measurement
- Three-year warranty





10 inch iFlex™ Flexible

Current Probe









EVA Foam Hard Case





Included Accessories

18-inch iFlex™ Flexible Current Probe (Fluke 381 only), Test Leads, Soft Carrying Case, Instruction Card, Safety Information Sheet, Two AA Alkaline

Ordering Information

FLUKE 381

Remote Display True-RMS AC/DC Clamp Meter with iFlex™

FLUKE 365

Detachable Jaw True-RMS AC/DC Clamp Meter

Contact your local distributor for price and availability. fluke.com/findus

Fluke 902 FC True-RMS HVAC Clamp Meter



Improve productivity in the field

The Fluke 902 FC delivers the features necessary to diagnose and repair HVAC systems. In addition, with Fluke Connect™ you can trend measurements, create and send reports right from the field, and safely stay away from live equipment.

Applications for HVAC

- $\bullet~$ 200 μA DC current measurements to measure flame rod
- $\bullet~$ Extended resistance range to measure thermistors up to 60 $k\Omega$
- Capture flue gas temperature
- Measure start and run motor capacitors
- Measure performance of variable frequency drives
- Temperature measurement from -10° C to 400° C (14° F to 752° F)
- 1000 µF capacitance measurement
- IEC 61010-2-032: CAT III 600 V, CAT IV 300 V
- Three-year warranty

Fluke Connect (FC) available in selected countries.

Contact your local Fluke distributors to find out more.

Fluke 902 FC

Functions	Range	Resolution	Accuracy
A AC (via Jaw)	60/600 A	0.01/0.1 A	±(2.0% + 5 digit) (45-65 Hz) ±(2.5% + 5 digit) (65-400 Hz)
V AC	600 V	0.1 V	±(1.5% + 5 digit) (45-400 Hz)
V DC	600 V	0.1 V	±(1% + 5 digits)
Ohms	600/6000 /60000 Ω	0.1/1/10	±(1% + 5 digits)
μΑ	200 μΑ	0.1 μΑ	±(1% + 4 digits)
Contact Temperature	10o C to 400o C (50° F to 752° F)	0.1 C/F	±(1% + 8 digits)
Capacitance	100.0/1000 μF	0.1/1 μF	±(1% + 4 digits)

Beep Volume 75 dBA nom, 15 cm from case front On Threshold <=30 Ω

Recommended Accessories Fluke 902FC

80PK-8

Type K Pipe

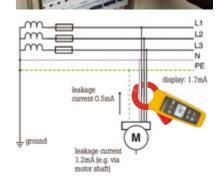


Insulated Test Leads



Adapter

C781



Included Accessories

Fluke 902 FC: TL75 Test leads, 80BK Integrated DMM Temperature Probe, Two AA Alkaline Batteries, Soft Carrying Case, Statement of Calibration Practices and User Manual.

Ordering Information

FLUKE 902 FC HVAC Clamp Meter

Contact your local distributor for price and availability. fluke.com/findus



Clamp Meters

Fluke 368 FC and 369 FC AC True-RMS Leakage Current Clamp Meters





Fluke 369



Measure leakage current to track small problems, avoid large problems

The Fluke 360 Series of True-RMS Leakage Current Clamp Meters help users detect, document, record and compare leakage current readings over time to prevent unplanned downtime, and identify intermittent GFCI and RCD trips, without taking equipment offline.

- True-RMS measurements for accuracy when measuring complex, non-sinusoidal waveforms
- Jaw size: 40 mm (1.57 in) (368 FC) and 61 mm (2.4 in) (369 FC)
- Current resolution 1 µA/0.01 mA and 0.01 A/0.1 A
- Frequency range 40 Hz to 1 kHz
- Selectable filter 40 Hz to 70 Hz or wideband 40 Hz to 1 kHz
- Highest resolution of 1 μA, measure up to 60 A
- Forward-facing LED worklight for use in dark wiring cabinets
- Backlit display; auto backlight off and auto power off for extended battery life.
- Wireless data connectivity via Fluke Connect™
- CAT III 600 V safety rating
- Three-year warranty

Specifications	
Measurement Function	Alternating current
AC Ampere Range	3 mA, 30 mA, 300 mA, 3 A, 30 A, 60 A
Range Selection	mA, A: manual selection 3 mA, 30 mA, 300 mA: automatic selection 3 A, 30 A, 60 A: automatic selection
Frequency	40 Hz to 1 kHz
Crest Factor	Three

Included Accessories

Fluke 368 FC/369 FC: Soft Case, Two AA Batteries, Safety Manual.

Ordering Information

FLUKE 368 FC

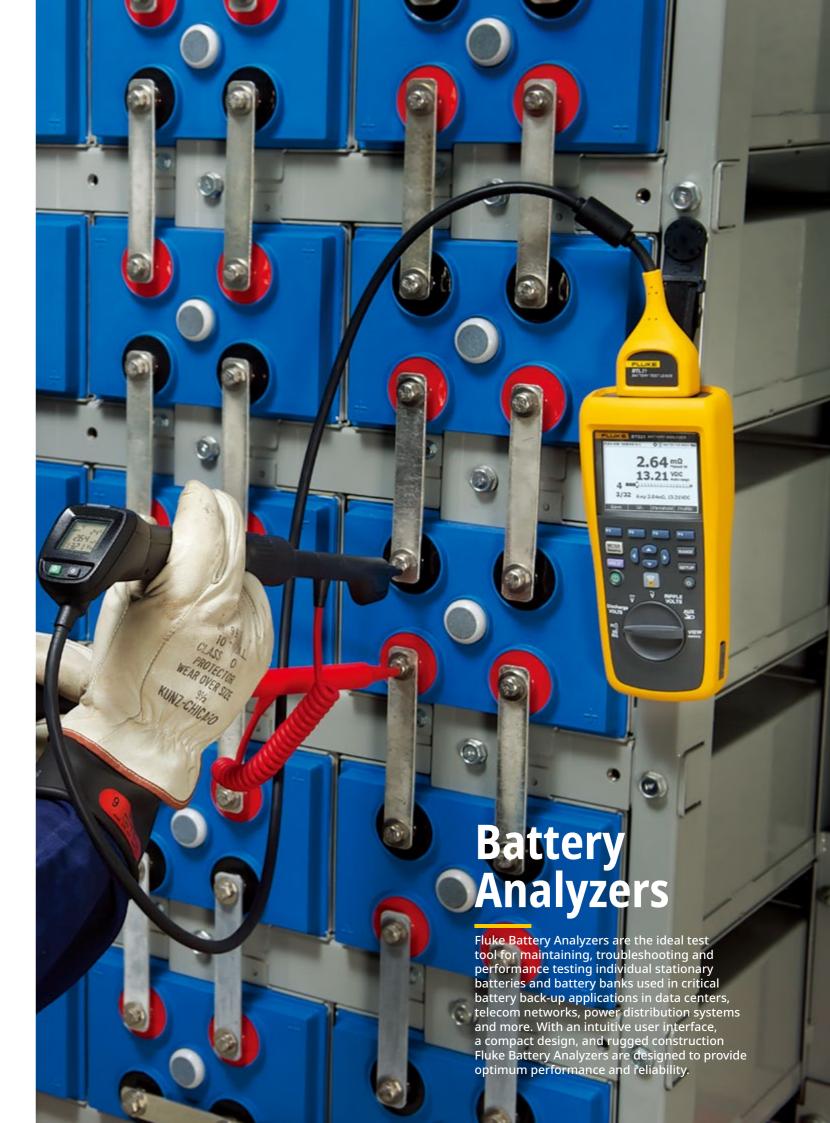
AC Leakage Current Clamp Meter

FLUKE 369 FC

AC Leakage Current Clamp Meter

Contact your local distributor for price and availability. fluke.com/findus

Fluke Connect (FC) available in selected countries. Contact your local Fluke distributors to find out more.



Fluke BT500 Series Battery Analyzers







More battery tests. Less time.

Fluke's BT500 Series Battery Analyzers cover a broad range of battery test functions ranging from DC voltage and resistance tests to full condition testing using an automated string function testing and the test probe integrated infrared temperature measurement system. 500 Series Battery Analyzers are designed for measurements on stationary batteries of all types.

- The world's fastest battery measurements reduce time of a typical battery measurement by 50% from 8 seconds to 4 seconds
- Unique Industry leading CAT III 600 V safety rating
- Key measurements: Battery resistance, DC and AC voltage, DC and AC current, ripple voltage, frequency and battery temp
- Sequence measurement mode: Automatic or manual sequence testing of battery strings with automatic measurement storage including voltage, resistance and temperature (with BTL21 intelligent test probe)
- Optimized user interface: Quick, guided setup ensures you're capturing the right data every time.
- Intelligent test probe set (BT520 and BT521): Integrated LCD display, infrared temperature measurement (BT521 only), verbal audio feedback and captures voltage readings and temperature logging automatically or via integrated save button
- Three-year warranty

Functions	Range	Resolution	Accuracy	BT510	BT520*	BT521*
Battery resistance ¹	3 mΩ 30 mΩ 300 mΩ 3000 mΩ	$\begin{array}{c} 0.001 \text{ m}\Omega \\ 0.01 \text{ m}\Omega \\ 0.1 \text{ m}\Omega \\ 1 \text{ m}\Omega \end{array}$	1% + 8 0.8% + 6 0.8% + 6 0.8% + 6			
V DC	6 V 60 V 600 V 1000 V	0.001 V 0.01 V 0.1 V 1 V	0.09% + 5 0.09% + 5 0.09% + 5 0.09% + 5	•	•	
V AC (45 Hz to 500 Hz with 800 Hz filter)	600 V	0.1 V	2% + 10	•	•	•
Frequency (displayed with Vac and Aac) ²	500 Hz	0.1 Hz	0.5% + 8	•	•	•
AC voltage ripple (20 KHz Max)	600 mV 6000 mV	0.1 mV 1 mV	3% + 20 3% + 10	:	:	:
A DC/A AC (with accessory Fluke i410)	400 A	1 A	3.5% + 2	-	-	•
Temperature	0° C to 60° C (32° F to 140° F)	1° C	2° C	-	-	•
Meter mode	999 records for each measurement position with time stamp				ıp	
Sequence mode	Up to 100 profiles and 100 profile templates (Each profile stores up to 450 batteries) with time stamp					

^{*}BT520ANG and BT521ANG for angled probe models

Specifications	
Size (HxWxD) and Weight	220 × 103 × 58 mm (8.66 × 4.05 × 2.28 in), 850 g (1.87 lb)
Screen dimensions	77 × 56 mm (3.03 × 2.2 in)
Interface	USB mini
Operating temperature	0° C to 40° C (32° F to 104° F)
Lithium-ion battery charging temperature	0° C to 40° C (32° F to 104° F)
Operating humidity	Non-condensing (10° C), ≤80% RH (at 10° C to 30° C (50° F to 86° F)), ≤75% RH (at 30° C to 40° C (86° F to 104° F))
Ingress Protection (IEC 60529)	IP40
Radio	FCC ID: T68-FWCS, IC: 6627A-FWCS
Vibration requirements	MIL-PRF-28800F: Class 2
Drop test requirements	1 m
Temperature coefficients	Add 0.1 × specified accuracy for each degree C above 28° C (82° F) or below 18° C (64° F)
Safety compliance (IEC 61010-2-032)	CAT III 600 V
1 The	the different advance since lie (100 and 11:11-

¹ The measurement is based on AC injection method. The injected source signal is <100 mA, 1 kHz. 2 Trigger level V AC: 10 mV, A AC: 10 A





BT521 Intelligent Test Probes with integrated display

Included Accessories

4-Wire Test Pin (set), BTL10 Basic Test Lead (set), TL175 TwistGuard™ Test Leads with Adapter, L300 Attachable LED Flashlight (2) (BT520 and BT521 only), BTL20 Intelligent Test Probe Set with Extender (no Temperature Sensor)(BT520 only), BTL21 Intelligent Test Probe Set with Extender and Temperature Sensor (BT521 only), i410 AC/DC Current Clamp (BT521 only), BP500 Lithium-ion Battery, BC500 AC Charger, Mini-USB Cable, Shoulder Strap, Belt Strap, Magnetic Hanging Strap, FlukeView™ Battery Management Software, Soft Carrying Case, Spare Fuses (2), Battery Tags (BT520 and BT521 only).

Ordering Information

FLK-BT510	Basic Battery Analyzer
FLK-BT520	Battery Analyzer
FLK-BT521	Advanced Battery Analyzer
FLK-BT520 ANG	Battery Analyzer with Angled Probes
FLK-BT521 ANG	Battery Analyzer with Angled Probes



Fluke T+ and T+PRO Electrical Testers



The expert's choice for **building diagnostics**

These electrical testers have all the advantages of traditional solenoid testers, with none of the typical drawbacks. Use all 3 voltage detection methods - light, sound, and vibration, to work more efficiently in noisy environments, dimly lit areas, or tight spaces. Built-in flashlight, GFCI trip capability, and the legendary ruggedness you expect from Fluke, make these an excellent choice for most residential, commercial, and industrial applications.

The Fluke T+PRO is the choice for the demanding commercial and industrial electrician. This full-featured electrical tester includes voltage and continuity measurement, a Rotary Field Indicator, resistance, and a digital display with 0.1 V resolution.

The Fluke T+ is the basic electrical tester for residential electricians and HVAC technicians, who need a durable, reliable tool for testing voltage and continuity.

Specifications			
Townsersture	Operating	-10°C to 55°C (14°F to 131°F)	
Temperature	Storage	-30°C to 60°C (-22°F to 140°F)	
	90%	0°C to 30°C (32°F to 86°F)	
Relative Humidity	75% 30°C to 40°C (86°F to 1		
	45%	40°C to 50°C (104°F to 122°F)	
Altitude	Operating	2,000 m (approx. 6,561.6 ft)	
Storage	10,000 m (approx	c. 32,808.4 ft)	
Battery Type/Life	AAA (2); 40	hours	
Shock, Vibration	Sinusoidal vibration per MIL-PRF-2	8800F for a Class 2 instrument	
Safety	ISA-82.02.01 (IEC 61010-1 Mod) Second Edition, CAN/CSA-C22.2 No. 61010-1 Second Edition, IEC 61010 - 1 to 1000 V CAT III/600 V CAT IV Compliance to NFPA 70E1		
AC Bandwidth	45 Hz to 0	66 Hz	
Maximum Working Voltage	1000 V AC/DC		
Maximum Measurable Voltage	600 V AC	600 V AC/DC	
Duty Cycle	Indefinitely for voltages up to 240 V For voltages between 240 V and 600 V the duty cycle is 30 s on / 300 s off For voltages above 240 V the tester must connect to a voltage source only for a MAXIMUM of 30 s and then disconnect for a MINIMUM of 300 s		
Voltage Hazard LED	LEDs turn on at voltages	s > 30 V AC/DC ±35%	
LED Voltage Indication Levels	12 V, 24 V, 48 V, 120 V, 208 V,	240 V, 277 V, 480 V, 600 V	
LEDs	LEDs turn on between 90% and 100% of the indicated voltage on the LED, except for the 12 V LED which turns on between 50% and 100%		
LCD Accuracy	AC voltage	±(3% rdg + 2 digits)	
	DC voltage	±(2% rdg + 2 digits)	
	Resistance	±(5% rdg + 3 digits)	
LCD Resolution	0.1 V for voltages < 50 V, 1 V for voltages ≥ 50 V 0.01 kΩ for resistance measurement		
GFCI Test Current	100 V - 150 V @ 6 mA - 9 mA AC, 150 V - 240 V < 12 mA		
Standard Input Test Current < 5 mA		A	
Size (H x W x L)	3.3 x 5.46 x 19.3 cm (1.3 x 2.15 x 7.6 in)		
Weight	0.28 kg (9.9 oz)		

¹ When used properly per Article 110.9 Use of Equipment (A) Test Instruments and Equipment.



Added functionality available only on the T+PRO:

- · Backlit LCD display for easier viewing
- Display resolution of 0.1 V, ideal for troubleshooting low-voltage lighting
- Resistance (Ohms) to 9.99 kOhms
- Rotary Field Indication
- Display Hold for easier viewing in hard-to-test areas



Included Accessories

Test leads and probes Two AAA batteries

Test lead strap for managing leads

Optional Accessories

H3 Belt Holster TP2 replacement test probes

Ordering Information

FLUKE T+PRO **Electrical Tester Electrical Tester** FLUKE T+ **Electrical Tester** T+PRO-1AC KIT and AC Voltage

Detector Kit

Contact your local distributor for price and availability. fluke.com/findus

Fluke T6 Series Electrical Testers with FieldSense







Measure voltage without test leads

Measure voltage up to 1000 V AC through the open fork, without test lead contact to live voltage.+ Without opening covers or removing wire nuts; on wires up to 4/0 (120 mm2), carrying as much as 200 A. It will change your job.



- Simultaneous voltage and current display (T6-1000 PRO) - shows all power supply measurements at a glance for efficient troubleshooting
- T6-1000 PRO features Visual Continuity™ the screen automatically lights up green for continuity, perfect when it's too loud to hear the beeper
- Works with wire up to AWG 4/0 (17.8 mm jaw opening)
- HOLD button temporarily freezes the reading for easy viewing
- Easy to read display with backlight
- Accepts optional Fluke TPAK Magnetic Meter Hanger for convenient operation
- Two-year warranty

+Voltage measurement requires capacitive path to ground, provided through user in most applications. Ground connection via test lead may be required in some

Recommended Accessories T5-RLS C37XT EVA Foam Hard Case Test Leads PRV240FS AC285

Clips

The Full Package

The Fluke T6-1000 PRO Electrical Tester comes with a belt holster and black alligator clip as standard. Measure wires up to AWG 4/0 (120 mm2), carrying as much as 200 A and 1000 V AC, even with gloves on.

Specifications		T6-600	T6-1000 PRO		
Function	Requires Test Leads	Range	Range	Resolution	Accuracy ¹
FieldSense™ AC voltage	No	600 V	1000 V	1 V	±(3% + 3 counts) ^{2 3} 45 Hz - 66 Hz
FieldSense™ AC current	No	200.0 A	200.0 A	0.1 A	±(3% + 3 counts) 45 Hz - 66 Hz
FieldSense™ frequency (Hz)	No		45 Hz – 66 Hz	1 Hz	±(1% + 2 counts) ³
Volts AC	Yes	600 V	1000 V	1 V	±(1.5% + 2 counts) 45 Hz - 66 Hz
Volts DC	Yes	600 V	1000 V	1 V	±(1% + 2 counts)
	Yes	2000 Ω	2000 Ω	1 Ω	±(1% + 2 counts)
Resistance	Yes		20.00 kΩ	0.01 kΩ	±(1% + 2 counts)
	Yes		100.0 kΩ	0.1 kΩ	±(1% + 2 counts)
Visual Continuity:		No	Yes		
Audible Continuity:		Yes	Yes		
Safety Compliance (IEC 61010-2-032)		CAT III 600 V	CAT III 1000 V CAT IV 600 V		
Accessories Included		No	Yes		

Accuracy1: \pm ([% of reading] + [number of least significant digits]). Accuracy is specified for 1 year after calibration, at 18° C to 28° C (64°F to 82°F) with relative humidity to 90%. AC conversions are ac-coupled, RMS responding. Accuracy(2: Add 3% without an external ground connection. External ground connection required for user wearing insulated gloves, standing on an insulated ladder and otherwise insulated from earth ground.

Accuracy3: FieldSense™ specified from 16V to 100% of range.

FieldSense™ **Enabled**

Proving Unit



Non-contact voltage measurement made possible with Fluke's FieldSense™ technology.

Get voltage measurements faster. easier and safer than ever. No direct electrical contact means less potential for electric shocks and arc flash.



Included Accessories

Attached Test Leads with removable 4 mm Probe Cap and User Documentation.

Ordering Information

T6-600 **Electrical Tester** T6-600 PRO **PRO Electrical Tester**

T6-600 Tester, 62MAX+/1AC 62MAX+ & 1AC-II Kit

Electrical Testers



Fluke T5 Series Electrical Testers



Fluke T5 Series Voltage, Continuity and Current Testers

The Fluke T5 Electrical Testers let you check voltage, continuity and current with one compact tool. OpenJaw™ current lets you check current up to 100 A AC - without breaking the circuit. Its tough test leads stow neatly in the back of the tester, making it easy to tote the T5 in your tool pouch. Detachable SlimReach™ test probes are customized for national electrical standards. The test leads accept optional accessories such as clips and specialty probes. Available in 600 V and 1000 V models.

- Excellent front-line troubleshooting and measurement tool
- Available in 600 V and 1000 V models
- Digital display
- OpenJaw[™] current measurement
- Rotary switch selects volts, amps and ohms functions
- Heavy-duty test leads
- Two-year warranty

Functions	T5-1000	T5-600
Measure AC/DC voltage	1000 V	600 V
Measure AC current (average)	100 A	100 A
Measure continuity	< 25 Ω	< 25 Ω
Measure resistance	1000 Ω	1000 Ω
DC polarity indicator	Yes	Yes
Detachable probe tips with optional probe tips styles	Yes	Yes
Safety Compliance (IEC 61010-2-032)	CAT III 1000 V	CAT III 600V

^{*}Voltage levels will vary depending on country of intended use.

Recommended Accessories Fluke T5 Series TP1 EVA Foam Hard Case Slim Reach Test Probes T5-Kit Starter Kit T5-RLS T5 Replacement Test Leads



Fluke VoltAlert[™] Family

VoltAlert™ AC non-contact voltage testers from Fluke are easy to use - just place the tip to a terminal strip, outlet, or supply cord. When the tip glows red, you know there's voltage present.

Fluke now offers three models of noncontact voltage detectors, making sure you have the right tool for the job. Two-year warranty.



1AC II	1LAC II	2AC	LVD2
90 V AC to 1000 V AC	20 V AC to 90 V AC	90 V AC to 1000 V AC	90 V AC to 900 V AC
CAT IV 1000 V	CAT IV 1000V	CAT IV 1000 V	CAT IV 600 V
•	•	•	•
•	•	•	•
•	•	Always On	•
•	•		
•	•		
			•
		•	
	90 V AC to 1000 V AC CAT IV 1000 V	90 V AC to 1000 V AC 90 V AC to 90 V AC CAT IV 1000 V CAT IV 1000V	90 V AC to 1000 V AC CAT IV 1000 V CAT IV 1000 V CAT IV 1000 V • • • Always On

Included Accessories

Fluke T5-600 & T5-1000: Detachable Probes and Instruction Sheet.

Ordering Information

FLUKE T5-600	Electrical Tester
FLUKE T5-1000	Electrical Tester
FLUKE 1AC-II	VoltAlert™ Voltage Detector
FLUKE 1LAC-II	VoltAlert™ Voltage Detector
FLUKE 2AC	VoltAlert™ Voltage Detector
FLUKE LVD2	Volt Light

Contact your local distributor for price and availability. fluke.com/findus

Fluke 9040 Phase Rotation Indicator



Take the guesswork out of phase/motor rotation measurements

The Fluke 9040 is effective for measuring phase rotation in all areas where 3-phase supplies are used to feed motors, drives and electrical systems. The Fluke 9040 is a rotary field indicator and can provide clear indication of 3-phase via an LCD display and the phase rotation direction to determine correct connections. It allows rapid determination of phase sequence and has a voltage (up to 700 V) and frequency range suitable for commercial and industrial applications. Test probes supplied with the instrument have a variable clamping range for safe contact, especially in industrial sockets per IEC 61557-7.

- 3-phase indication
- Indication of phase rotation
- Clear LCD display
- No battery required
- Two year warranty

Specifications	
Voltage range	40 - 700 V
Phase display	-
Frequency range	15 - 400 Hz
Operating time	Continuous
Size	124 × 61 × 27 mm (4.88 × 2.40 × 1.06 in)
Power supply	from unit under test
Weight	0.20 kg (7.05 oz)
Safety Compliance	(IEC 61010-2-030)- CAT IV 300 V, CAT III 600 V



Included Accessories

Alligator Clips - Black (3), Standard Test Probes - Black (3), Flexible Test Probes - Black (3), Two AA Batteries, User Manual.

Ordering Information

FLUKE-9040

Phase Rotation Indicator

Contact your local distributor for price and availability. fluke.com/findus



Electrical Testers





PLS 3x360R and 3x360G Three-plane Laser Levels



Lighten your toolbelt - plumb, level and square with one tool

The PLS 3x360R and 3x360G Three-plane Laser Levels combine the best qualities of your favorite PLS gear, now with best-in-class accuracy and new features including a rechargeable battery pack with charging adaptor, and a pendulum lock for added protection during transportation.

- Accuracy of 2 mm at 10 meter distance
- Pendulum lock
- Out-of-level warning
- Replaceable glass inserts and metal towers
- IP54 protection rating to limit dust and water entry
- Three-year warranty



PLS 3x360G

PLS, The Professional Standard - Built by

points and lines for quick and accurate layout. The 3x360R and 3x360G fill the gap in Fluke's legacy products that are now discontinued, including the HVL100, PLS 360 and

contractors for contractors The PLS 3x360R and 3x360G provide bright, crisp reference





Battery		
Battery	Lithium-ion, 3.6 V, 5200 mAh	
Battery Life, Continuous Use (Typical)	3 beams: ≥ 9 hours 1 beam: ≤ 30 hours	3 beams: ≥ 5 hours 1 beam ≤ 17 hours
Line Fan Angle		
Horizontal	36	50°
Front Vertical	36	60°
Side Vertical	36	60°
Working Range		
Without Line Detector	20 m (65.61 ft)	35 m (114.82 ft)
With Line Detector	50 m (164.04 ft)	65 m (213.25 ft)
Accuracy		
Accuracy	±2 mm @ 10 m distance (±	±0.07 in @ 32.8 ft distance)
Laser Leveling		
System	Automatic Pendulum	
Range	Self-leveling: ≤ 4° Out of self-leveling: > 6°	
Leveling Time	≤ 3 seconds	
General Specifications		
Ingress Protection	IEC 605	29: IP54
Weight (With Battery)	0.8 kg ((1.76 lb)
Li-ion Battery Safety	IEC 62133	
Laser Safety		
Light Source	Semiconducto	or laser diode
Max Output Power	<1 mW	
Wavelength		
Red	635 nm ±10 nm	
Green	520 nm ±10 nm	
Electromagnetic Compati		
International	IEC 61	1326-1









PLS 3x360 CB Ceiling Bracket used with PLS 3x360 MLB







Li-ion battery with Li-ion battery only charging cord and adaptors







Included Accessories

PLS 3x360R/PLS 3x360G Bare Tool: Canvas Pouch

PLS 3x360R/PLS 3x360G Kit: RBP5 (Li-ion), Power Supply, 3x360 Magnetic L-Bracket, Red/Green Reflective Target, Canvas Pouch, Blow Mold Case

Ordering Information

PLS 3x360R	Three-plane La	
Z Tool	Level Red	
DI C 2 2626	Thursday I are	

Z Tool Level Green PLS 3x360R Kit

Three-plane Laser Level Kit Red

Three-plane Laser PLS 3x360G Kit Level Kit Green



PLS H2, HV2R and HV2G Rotary Laser Levels



PLS HV2G





Designed for any construction job site

These professional-grade tools offer the accuracy and durability you can expect from PLS, a Fluke Company. The PLS Rotary range is ideal for use by general contractors, electricians, plumbers and landscapers in both interior and exterior applications.

H2 Rotary Laser Level

The PLS H2 model is a horizontal-only rotary laser that offers a simple one button operation.

- The H2 is a horizontal-only rotary laser. It is easy-touse and fully self-leveling, designed for interior and exterior layout projects.
- This fully automatic unit offers one-button operation and is ideal for large exterior layout applications including concrete forms, slabs, and other horizontal leveling applications.
- Three-year warranty

HV2R (Red Laser) and HV2G (Green Laser)

Offering a rugged ergonomic design and simplified controls, the PLS HV2R/G emits a laser line in the horizontal or vertical plane. The HV2R/G rotary lasers also emit a point from the top when placed in the vertical position.

- The HV2G rotary laser level emits a self-leveling horizontal laser plane and can be used in the vertical position to emit a vertical laser plane. Applications include setting foundations and footings, concrete pours, drywall terracing, contour framing and suspended ceiling installation.
- Three-year warranty

Specifications	H2	HV2R	HV2G
Laser	Class II Red	Class II Red	Class II Green
Laser axis	Horizontal Only	Horizontal and Vertical	Horizontal and Vertical
Accuracy	≤ 2.2 mm (0.08 in) @ 30 m (98.42 ft)	≤ 2.2 mm (0.08 in) @ 30 m (98.42 ft)	≤ 2.2 mm (0.08 in) @ 30 m (98.42 ft)
Auto-leveling range	±5 degrees	±5 degrees	±5 degrees
Manual slope range	±5 degrees	±5 degrees	±5 degrees
Working range	≤ 30 m (98.42 ft) without XLD laser detector ≤ 300 m (984.25 ft) with XLD laser detector	≤ 30 m (98.42 ft) without XLD laser detector ≤ 300 m (984.25 ft) with XLD laser detector	≤ 30 m (98.42 ft) without XLD laser detector ≤ 300 m (984.25 ft) with XLD laser detector
Ingress Protection (IEC 60529)	IP67	IP67	IP67
Battery Life	> 60 hours	> 60 hours	> 60 hours



Included Access	Included Accessories		
PLS BP10 Alkaline Battery Tray, Four D Batteries, Safety Sheet and Quick Reference Guide.			
Ordering Inform	nation		
PLS H2 Z	Horizontal Red Rotary Laser		
PLS H2 KIT	Horizontal Red Rotary Laser Kit		
PLS H2 SYS	Horizontal Red Rotary Laser System		
PLS HV2R Z	Manual Slope R/G		
PLS HV2G Z	Rotary Laser Bare Tool		
PLS HV2R KIT	Manual Slope R/G		
PLS HV2G KIT	Rotary Laser Kit		
PLS HV2R SYS	Manual Slope R/		
PLS HV2G SYS	G Rotary Laser System		

Contact your local distributor for price and availability. fluke.com/findus

PLS Laser Levels



PLS 3G



PLS 180R



Point Laser (3R/G, 5R/G)

The professional self-leveling three-point (3R/G) and five-point (5R/G) laser level, available in red or green laser, allows for fast, accurate layout of reference points. Three-vear warranty.

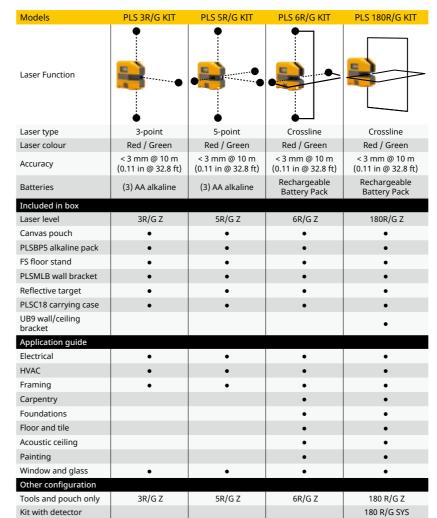
Combo Line Laser (6R/G)

Plumb, level, and square with one tool. This professional self-leveling combination point and cross line laser level, available in red or green laser, includes vertical and horizontal modes with lines and points combined. Three-vear warranty.

Plumb, level, and square with one tool. This professional self- leveling cross line laser level, available in red or green laser, includes vertical and horizontal modes allowing for fast, accurate, level and plumb reference lines. Three-year warranty.

SLD Laser Line Detector

Laser line detector compatible with the PLS 6 and PLS 180 laser levels, for use outdoors, or in an area with bright overhead lighting. Visual and audible indicators for ease of use. Includes mounting clamp for guick and steady positioning.



Recommended Accessories





1 PLS RBC5 Charging Cable



Included Accessories

Bare Tool: Canvas Pouch

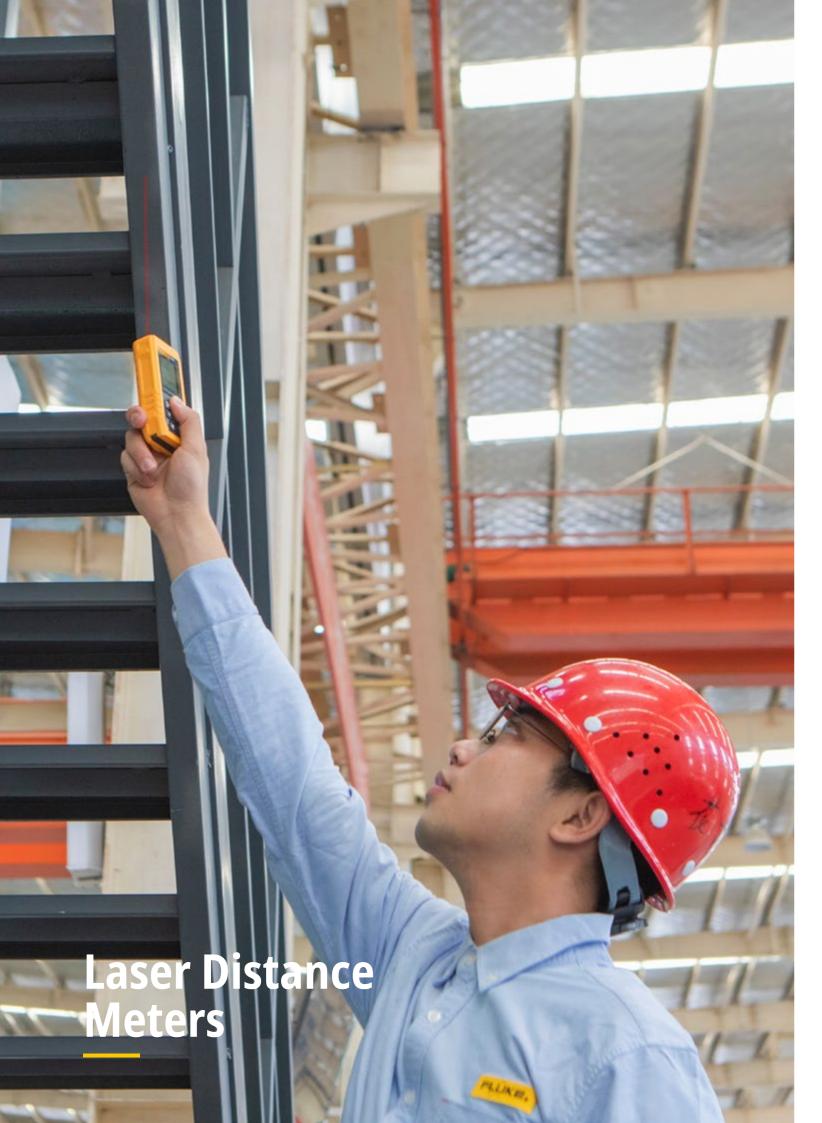
Kit: Canvas Pouch, Carry Case, Three AA Batteries, Floor Stand, Wall Bracket, Reflective Target. 6R/G and 180R/G models with Rechargeable Battery Pack. 180R/G models with Wall/ Ceiling Bracket.

System: 6R/G and 180R/G models with Canvas Pouch, Carry Case, Three AA Batteries, Floor Stand, Wall Bracket, Reflective Target, Line Detector, Rechargeable Battery Pack. 180R/G models with Wall/ Ceiling Bracket.

Ordering Information

PLS 3R Z PLS 3G Z	Red/Green 3-Point Laser Level
PLS 3R KIT PLS 3G KIT	Red/Green 3-Point Laser Level Kit
PLS 5R Z PLS 5G Z	Red/Green 5-Point Laser Level
PLS 5R KIT PLS 5G KIT	Red/Green 5-point Laser Level Kit
PLS 6R Z PLS 6G Z	Red/Green Combo Point Laser Level
PLS 6R RBP KIT PLS 6G RBP KIT	Red/Green Combo Point Laser Level Kit
PLS 6R RBP SYS PLS 6G RBP SYS	Red/Green Combo Point Laser Level System
PLS 180R Z PLS 180G Z	Red/Green Combo Point Laser Level
PLS 180R RBP KIT PLS 180G RBP KIT	Red/Green Combo Point Laser Level Kit
PLS 180R RBP SYS PLS 180G RBP SYS	Red/Green Combo Point Laser Level System







Fluke 417D and 424D Laser Distance Meters







Professional grade distance measuring tools that are fast, easy to use and fit in your pocket

Measure farther, with greater accuracy, in more situations.

- Measure with greater accuracy: Up to ±1 mm, no scales to interpret or misread (424D)
- Do the work of two: Instead of holding the tape, your helper can do other jobs
- The most advanced 2 laser technology for distance measurement
- Speed up the job: Easily measure hard-to-access areas, like high ceilings, without climbing a
- Keep it on the level: New inclination sensor on the Fluke 424D helps with leveling, height tracking, measuring around obstacles
- Reduce estimating errors, let the meters do the math: Find area and volume. Easily add and subtract distances. Use Pythagoras calculations for height
- Improved battery life: Automatic shut-off
- Improved visibility with backlit screen
- Three-year warranty (417D & 424D)

The Fluke 424D Laser Distance Meter offers:

- Improved visibility with backlit screen
- Tripod mode allows you to mount to a tripod for measuring long distances
- Stake out function
- Enhanced Pythagoras calculation for determining distance indirectly from three other measurements
- Audible keypad feedback
- Storage of the last twenty measurements for quick recall of distance
- Strong environmental protection with IP54 (water spray and dust proof) sealing
- Inclination sensor for taking measurements in hard to reach areas
- Compass provides a "heading" for distance measurement
- Automated end-piece correction: when measuring from an edge or corner, a built-in sensor detects the position of this bracket and automatically changes the reference point

Key Features	417D	424D
Maximum measurement distance	40 m (131,23 ft)	100 m (328.08 ft)
Accuracy	±2 mm (0.078 in)	±1 mm (0.039 in)
Battery life (no. of measurements)	3000	5000
Area measurement	•	•
Volume measurement		•
Pythagoras calculations		•
Plus and minus calculations		•
Measurement storage		20 sets
Backlight		•
Minimum/Maximum		•
Audible keypad feedback		•
Tripod mount		•
Corner angle measurement		•
Ingress Protection (IEC 60529)	IP54	IP54
Compass		•
Inclination sensor		•
Automated end-piece correction		•
Laser Class	2	2







L206 Deluxe LED Hat Light

Recommended Kits Bundle and Save



Fluke 417D/62MAX+ Laser Distance Meter/Infrared Thermometer Combo Kit



Included Accessories

417D & 424D: Two AAA Batteries, User Manual CD, Quick Reference Guide, Vinyl Carrying Pouch, Lanyard.

Ordering Information

FLUKE-417D Laser Distance Meter, 40 m Laser Distance FLUKE-424D Meter, 100 m

FLUKE-417D 62 MAX+ KIT

Laser Distance Meter/Infrared Thermometer Combo Kit



Fluke 405, 408 and 410 Laser Distance Meters

#890 - 2545 - 2940 - 36588 - 2545 - 2940 - 36588 - 2545 - 2940 - 36588 - 2545 - 2940 - 36588 - 2545 - 2940 - 36588 - 2545 - 2940 - 36588 - 2545 - 2940 - 36588 - 2545 - 2940 - 36588 - 2545 - 2940 - 36588 - 2545 - 2940 - 36588 - 2545 - 2940 - 36588 - 2545 - 2940 - 36588 - 2545

Fluke 410

These Laser Distance Meters have the Fluke durability and quality you expect. The simple design and easy-to-use button operation allow you to operate with one hand, minimize time spent measuring and maximize the reliability of measurements.

Key Functions:

- Quickly measure distance, calculate area / volume / pythagoras
- Auto level and height
- Built to withstand rainy or dusty conditions: 1-meter drop tested with rated IP65
- Electronic angle display, auxiliary level measurement
- Up to 100 sets of data storage
- The battery life up to 5000 single measurements
- Automatically power off after 3 minutes of inactivity
- Universal tripod interface, easy to use
- Type-C charging port, strong endurance
- 2-inch HD display, clear viewing in full sunlight

Included Accessories

Fluke 405: Full telescope, User manual, Vinyl carrying pouch, 2 AAA NiMH rechargeable cells, Qualification certificate, Lanyard, Type-C cable, 0.5m Fluke 408: Full telescope, User manual, Vinyl carrying pouch, 2 AAA NiMH rechargeable cells, Qualification certificate, Lanyard, Type-C cable, 0.5m Fluke 410: Full telescope, User manual, Vinyl carrying pouch, 2 AAA NiMH rechargeable cells, Qualification certificate, Lanyard, Type-C cable, 0.5m

	405	408	410
Specifications			
Range	0.2 to 50 m	0.2 to 80 m	0.2 to 100 m
Accuracy* In favorable condition**		±(2.0mm+5x10 ⁻⁵ D)	
Accuracy In unfavorable condition***		±(3.0mm+29x10 ⁻⁵ D)	
Angle accuracy			
Angel measurement method			
Measurement unit			
Display		2.0-inch positive display	
Measurements			
Single measurement	•	•	•
Continuous measurement	•	•	•
Area measurement	•	•	•
Volume measurement	•	•	•
Auto Level	•	•	•
Auto Height	•	•	•
Pythagoras 2-point	•	•	•
Pythagoras 3-point	•	•	•
Add / Substrate Method	•	•	•
Measurement reference	Front	/ Tripod hole / Back / Ext	ender
Auto-off		3 minutes after inactivity	
Data Storage		100 sets	
Time-delay measurement	•	•	•
Auto calibration	•	•	•
Side button	•	•	•
Extender	•	•	•
General			
Laser class			
Laser type			
Battery life	up to 3500 i	measurements (single me	asurement)
Operating temperature			
Storage temperature			
Ingress protection		IP65	
Drop test		1 m	
Size		52 mm × 116mm × 28mm	
Weight		110g	
Certification			
Laser certification			
Electrical certification			



Digital Infrared Thermometer Selection Guide

					560 Series		570 Series
	Fluke 62 MAX	Fluke 62 MAX+	Fluke 64 MAX	Fluke 561	Fluke 566	Fluke 568/568Exx	Fluke 572-2
Temperature range	-30 to 500 °C	-30 to 650 °C	-30 to 600 °C	- 40 to 550 °C	- 40 to 650 °C	- 40 to 800 °C	- 30 to 900 °C
Distance to spot	1:01	12:1	20:1	12:1	30:1	50:1	60:1
Laser sighting	Single laser	Dual laser	Single laser	single-point laser	single-point laser	single-point laser	offset dual laser, output <1 mW
Accuracy	1.5%	1.0%	1.0%	1.0%	1.0%	1.0%	1.0%
Response time	< 500 mSec	< 300 mSec	< 500 mSec	< 500 mSec	< 500 mSec	< 500 mSec	< 500 mSec
Recommended distance to spot	Up to 2 m	Up to 2 m	Up to 2 m	Up to 2.5 m	Up to 4.5 m	Up to 7.5 m	Up to 9 m
Adjustable emissivity	•	•	•	•	•	•	•
MIN/MAX readings	•	•	•	•	•	•	•
AVG readings	•	•	•		•	•	•
DIFreadings	•	•	•	•	•	•	•
Backlit LCD	•	•	•	•	•	•	•
Audible Hi/Lo alarm			•		•	•	•
Visible Hi/Lo alarm			•		•	•	•
Includes contact probe				•	•	•	•
Probe input (types)				Thermocouple K		Thermocouple K Thermocouple K	Thermocouple K
Data logging (number of measurements)			99 points		20 points	99 points	99 points
PC interface						USB	USB 2.0
FlukeView® Forms software compatible						•	•

	Visual Intrared Thermometer	
	Fluke TC01A Fluke TC01B	
Performance specifications30 to 500 °C	ე. (
IR resolution	256 x 192	Tempe
Pixel size	12 µm	Distan
Temperature range	-10 °C to 550 °C -20 °C to 550 °C	Lasers
Temperature accuracy	$\pm2\%$ of rdg or ±2 °C, whichever is greater (@ 23 °C ±5 °C ambient temperature)	Accura
Temperature measurement distance	0.25 to 5 m(* -20 °C to 10 °C, only for 0.25 to 3 m)	Respor
Frame rate	25 Hz	Adjusta
Warm-up time	1 minute	MIN/M
Focal length	Fixed focal length: 3.2 mm	AVG re
Shutter mode	Built-in automatic shutter	DIFrea
Thermal sensitivity (NETD)	50 mK	Backlit
Spectral range	8 to 14 µm	Audible
Field of view (H×V)	56° x 42°	Visible
Spatial resolution	3.81 mrad	Include
		Probe
	Visual Infrared Thermometer	Data lo
	Fluke VT06 Fluke VT08	measn
Infrared resolution	-30 to 500 °C	PC inte
Image mode	Thermal image / Visible image / PIP Thermal image	FlukeV
Thermal sensitivity/NETD	60 mk	compa
Field of view (H×V)	50° × 37.5°	
Spatial resolution	7.6 mrad	
Focus system	Focus free	
Minimum focusing distance	0.5 m (19.7 in)	
Temperature range	-20 °C to 400 °C [-4 °F to 752 °F] (not specified for below -10 °C)	
Battery type	Rechargeable Li-ion battery, unremovable	
Battery operation time	≥5 hrs (VT08) ≥8 hrs (VT06) Actual battery life depends on environment and settings	
Internal storage	14 GB (>50000 images)	
Laser sighting	Yes	
Type-C interface	Yes	

Recommended Applications



Plant/Facilities Maintenance

- Preventive and Predictive Maintenance
- Energy Eudits
- Vehicle and Fleet Maintenance
- Programs
- Faulty Electrical/Circuit Connections Petrochemical/Hazardous Locations Motors, Pumps and Bearings



Heating/Ventilation/Air Conditioning/Refrigeration

- Leaky Ductwork
- Thermostats
- Temperature Balancing
- Steam Distribution Systems
- Compressor Lines



Safety and protection

- Fire Localisation
- Hazardous Materials Faulty Ballasts
- Search and Rescue
- Smoldering Embers
- Equipment Maintenance



Safety and protection

- Fire Localisation
- Hazardous Materials
- Faulty Ballasts
- Search and Rescue
- Smoldering Embers
- Equipment Maintenance

Fluke VT06 and VT08 **Visual Infrared Thermometer**



Laser sighting

Type-C interface

Higher resolution, greatly improving temperature measurement efficiency

The 120 x 90 resolution model has more than 10000 infrared pixels, which is 12 times higher than the previous generation* and rich temperature details help you find problems faster.

Difficult to distinguish between false and real? Infrared and visible blending can help!

VT08 is equipped with both infrared and visible light cameras and blend a visual image with infrared heat map overlay in real-time to distinguish the object. In addition, you can guickly adjust the blend degree according to your habits, or switch to the Picture-in-Picture mode.

Experience of thermal imagers in the size of a

Portability is one of the advantages of VT06 / 08 thermal imager. It is almost comparable to the point thermometer in terms of weight and size. Great abilities with a small size, you can get a leap in temperature measurement experience from

Drop-proof, dust and water resistance, suitable for harsh industrial environments

Built with legendary Fluke ruggedness, VT06/08 features IP65 ingress protection and 2-meter drop test. It can provide stable and reliable test results even if it is exposed to the sun and rain, or it is dropped.





Specifications	VT08 VT06	
Thermal image and optics		
Infrared resolution	120×90	
Image mode	Thermal image / Visible image / PIP Thermal image	
Thermal sensitivity/NETD	60 mk	
Field of view (H x V)	x V) 50° x 37.5°	
Spatial resolution	7.6 n	nrad
Focus system	Focus	free
Minimum focusing distance	0.5 m (19.7 in)
General features		
Temperature range	-20 °C to 400 °C [-4 °F to 752 °F] (not specified for below -10 °C)	
Battery type	Rechargeable Li-ion battery, unremovable	
Battery operation time	≥5 hrs (VT08) ≥8 hrs (VT06) Actual battery life depends on environment and settings	
Internal storage	ernal storage 28 GB (>100000 images)	

Included Accessories

Wrist strap for main unit, Quick reference guide, Charger + Adapter, TYPE C data cable, Data downloadi ng

Infrared Thermometers



Fluke iSee™ Mobile Thermal Camera TC01A and TC01B



Detailed image quality comparable to professional thermal cameras

Easily see potential problems with blended IR and visual images, on a large 8.89 cm (3.5 in) LCD display. Fluke Performance Series Infrared Cameras are one-handed pistol grip models that make on-site thermal inspections quicker and easier

- 256 x 192 pixels, detailed image quality
- Up to 550 °C, suitable to use in many applications
- 50 mk (0.05 °C) thermal sensitivity for fine differences
- ±2% or ±2 °C accuracy to ensure reliable results
- 25 Hz frame rate for smooth video recording
- Customize image view with more than 10 standard or custom color palettes
- Powerful full temperature range analysis
- Never miss any detail with real-time high and low temperature capture
- Adjustable emissivity to apply with different materials
- Comprehensive temperature analysis for spot, line and area, supported with professional thermal imaging mobile software
- Real-time temperature alarm for timely response of abnormal condition
- Automatic time-lapse capture mode, for unattended operation
- Infrared and visible image comparison for locating, comparing and archiving
- Real-time image sharing for fast and easy communication

	Visual Infrared Thermometer		
	Fluke TC01A Fluke TC01B		
Performance specifications			
IR resolution	256 x 192		
Pixel size	12 µm		
Temperature range	-10 °C to 550 °C	-20 °C to 550 °C	
Temperature accuracy	± 2% of rdg or ± 2 °C, whichever is grea	ater (@ 23 °C ± 5 °C ambient temperature)	
Temperature measurement distance	0.25 to 5 m(* -20 °C to	10 °C, only for 0.25 to 3 m)	
Frame rate	2	5 Hz	
Warm-up time	1 m	ninute	
Focal length	Fixed focal I	length: 3.2 mm	
Shutter mode	Built-in auto	omatic shutter	
Thermal sensitivity (NETD)	50	0 mK	
Spectral range	8 to	14 µm	
Field of view (H x V)	569	° x 42°	
Spatial resolution	3.81	1 mrad	
General Specifications			
USB Interface	Type C	Lightning	
Operating temperature	0 ℃	to 40 °C	
Storage temperature	-30 °C	C to 60 °C	
Operating humidity	10% to 90% RH	l, non-condensing	
Power consumption	350 mW (Typical)	200 mW (Typical)	
Drop test		1 m	
Ingress protection	IEC 60529: IP54 (with Type C cover)	IEC 60529: IP56	
Operating altitude	20	000 m	
Storage altitude	12000 m		
Dimensions (L x W x H)	H) 60 x 33.5 x 11.2 mm		
Weight	2	22 g	
EMC	International IEC 61326-1: Portable Electromagnetic Environment CISPR 11: Group 1, Class A Group 1: Equipment has intentionally generated and/or uses conductively-coupled radio frequency energy that is necessary for the internal function of the equipment itself. Class A: Equipment is suitable for use in all establishments other than domestic and those directly connected to a lowvoltag power supply network that supplies buildings used for domestic purposes. There may be potential difficulties in ensuring electromagnetic compatibility in other environments due to conducted and radiated disturbances. Caution: This equipment is not intended for use in residential environments and may not provide adequate protection to radio reception in such environments. Korea (KCC) Class A equipment (Industrial Broadcast & Communications Equipment) Class A: Equipment meets requirements for industrial electromagnetic wave equipment and the seller or user should take notice of it. This equipment is intended for use in business environments and not to be used in homes. USA (FCC) 47 CFR 15 subpart B. This product is considered an exempt device per clause 15.103.		
Warranty	2 1	years	

Fluke 60 Series Infrared Thermometers







Fluke 62 MAX, 62 MAX+ and 64 MAX IR Thermometers

The Fluke 62 MAX, 62 MAX+ and new 64 MAX IR Thermometers have the precision you need to do your job accurately and will not break the budget. Designed and tested to survive a 3-meter drop, you can count on these lightweight, compact infrared thermometers to work when you need them to work-even in the harshest environments and when you're not able to be there.

- Precise laser technology for more accurate and repeatable measurements
- Temperature accuracy of up to ≥ 0° C: ±1° C or ±1% ≥ of reading whichever is greater with 20:1 distance to spot ratio (64 MAX)
- Flashlight (64 MAX) and large, easy-to-read backlit LCD display for easy viewing even in dark environment
- IP54 rated for extra protection against airborne contaminants
- Get your tool to work when you can't—set time and desired interval between measurements and Auto Capture will capture spot temperatures unattended (64 MAX)
- 99 data point logging (64 MAX)
- Displays the minimum, maximum or average temperature, or the difference between two measurements
- Hi and Lo alarms for rapid display of measurements outside set limits
- Dual rotating lasers to help you identify area to be measured (62 MAX+)
- Small and lightweight, fits easily into your tool box
- Three-year warranty

Tripod Mounting Accessory for 64 MAX
Recommended Kits Bundle and Save
Fluke 116/62 MAX+ Technician's Combo Kit
Fluke T6-600/62 MAX+/1AC-II Infrared Thermometer and

Recommended Accessories

TI-TRIPOD

Electrical Tester Kit

Fluke 417D/62MAX+ Laser

Distance Meter/Infrared

Thermometer Combo Kit

Fluke 62MAX+/323/1AC

Combo Kit

62 MAX+ 64 MAX Specifications 62 MAX -30° C to 500° C -30° C to 650° C - 30° C to 600° C Temperature range (-22° F to 932° F) (-22° F to 1,202° F) (-22° F to 1,112° F) ±1.5° C or ±1.5% of ±1.0° C or ±1.0% of reading, 1.0° C or ±1.0% of reading, reading, whichever is whichever is greater whichever is greater greater -10° C to 0° C: ±2.0 -10° C to 0° C: ±2.0 -10° C to 0° C: ±2.0 Accuracy -30° C to -10° C: ±3.0 (14° F to 32° F: ±2.0 -30° C to -10° C: ±3.0 -30° C to -10° C: ±3.0 (14° F to 32° F: ±2.0 (14° F to 32° F: ±2.0 -22° F to 14° C: ±3.0) -22° F to 14° C: ±3.0) -22° F to 14° C: ±3.0) Emissivity 0.10 to 1.00 10:1 (calculated at 90% 12:1 (calculated at 90% 20:1 (calculated at 90% Optical resolution energy) Compliance IEC 61010-1: 2001 Laser safety FDA and IEC 60825-1 Class 2



Included Accessories

Fluke 64 MAX, 62 MAX and 62 MAX+: Two AA Batteries and Instruction Sheet.

Ordering Information

FLUKE-04 MIAX	Thermometer, 10:1 Spot
FLUKE-62 MAX+	Dual Laser IR Thermometer, 12:1 Spot
FLUKE 62 MAX+/323/1AC	IR Thermometer Clamp Meter and Voltage Detector Kit
FLUKE-64 MAX	IR Thermometer
FLUKE-T6-600/ 62MAX+/1AC	T6-600 Tester, 62MAX+ and 1AC-I Combo Kit
1587KIT/62 MAX+	2-in-1 ADV Elec Kit with 62MAX+ i400



Fluke 560 Series and 570 Series Infrared Thermometers

Fluke 568

Fluke 561, 566 and 568 Infrared and **Contact Thermometers**

With a straight-forward user interface and soft-key menus, the Fluke 561, 566 and 568 make even complex measurements easy. With just a few pushes of a button you can easily adjust emissivity, start data logging, or turn on and off alarms. With a rugged, easy-to-use design, the Fluke 561, 566 and 568 can stand up to tough industrial, electrical, and mechanical environments.

- Confidently measure more surfaces, with adjustable emissivity and built-in materials table
- Log and download measurements for reporting (568)
- Audible and visual alarms
- MIN/MAX/DIF functions
- Includes KTC bead probe and compatible with any K-type thermocouple
- Two-year warranty

Fluke 561	
Specifications	

Specifications	561	566	568/568 Ex
Infrared temperature range	-40° C to 535° C (-40 to 995° F)	-40° C to 650° C (-40 to 1,202° F)	-40° C to 800° C (-40 to 1,472° F)
Accuracy		Greater of ±1% or ±1° C	
Distance to Spot (D:S)	12:1	30:1	50:1
Sighting		Laser point	
Typical distance to target	Up to 2.5 m (8.2 ft)	Up to 4.5 m (14.76 ft)	Up to 7.5 m (24.6 ft)
Contact temperature range	-40° C to 550° C (-40° F to 1,022° F)	-270° C to 1372° C (-	454° F to 2,501.6° F)
Number of on-board memory locations	_	20	99
PC download and software	_	_	FlukeView™ Forms
Material type adjustment (emissivity)	Hi/Med/Lo	Material table or (0.1 to 1.00 by 0.01
High and low alarms	_	High and I	ow alarms

80PK-18

Infrared Thermometer The Fluke 572-2 Infrared Thermometer is the one product you can use in high temperature industrial environments all around the world. This is the best choice for when you need accurate results for high temperature readings from a long distance.

• Measure -30° C to 900° C (-22° F to 1,652° F)

Fluke 572-2 High Temperature

- 60:1 distance to spot ratio with dual laser sighting for fast, accurate targeting
- Last reading Hold (20 seconds)
- High and low temperature alarm
- Data storage and review (99 data sets)
- Compatible with standard mini-connector K-type thermocouples, including ones you already own
- Current Temperature plus MAX, MIN, DIF, AVG displays
- Adjustable emissivity and predefined emissivity table
- FlukeView™ Forms documenting software
- Two-year warranty

Specifications	572-2
Infrared temperature range	-30° C to 900° C (-22° F to 1,652° F)
Infrared accuracy (calibration geometry with ambient temperature 23° C \pm 2° C)	≥0° C: ±1° C or ±1% of the reading, whichever is greater ≥-10° C (14° F) to <0° C (32° F): ±2° C (3.6° F) <-10° C (14° F): ±3° C (5.4° F)
Distance:Spot	60:1
Laser sighting	Offset dual laser, output <1 mW
Hi/Low alarms	Audible and two-color visual
Min/Max/Avg/Dif	Yes
Data storage	99 points
K-type thermocouple input temperature range	-270° C to 1372° C (-454° F to 2,501.6° F)
K-type thermocouple input accuracy (with ambient temperature 23° C \pm 2° C)	< -40° C: ±(1° C + 0.2°/1° C) ≥ -40° C: ±1% or 1° C, whichever is greater

Specialty Models Fluke 568Ex Intrinsically Safe Infrared Thermometer

- Measure -40° C to 800° C (-40° F to 1,472° F)
- 50:1 distance to spot ratio with dual laser sighting for fast, accurate targeting Display resolution 0.1° C of reading

Adjustable emissivity and

predefined emissivity table Safety Certification ATEX/IECEx for Class 1, Div 1, Div 2, Zone 1 and 2

Recommended Accessories











Included Accessories

560 Series: Thermocouple K-type Velcro Pipe Probe (561 only), K-type Thermocouple Bead Probe (566 & 568 only), FlukeView™ Forms Software (568 only), USB Cable (568 only), Hard Carrying Case, two AA Batteries and User Manual with Measurement Guide.

572-2: K-type Thermocouple Bead Probe, USB 2.0 Computer Interface Cable, FlukeView™ Forms Documenting Software, Hard Carrying Case, Getting Started Guide and User Manual (CD).

Ordering Information

FLK-572-2	IR Thermometer
FLUKE-561	HVACPro Infrared Thermometer
FLUKE-566	IR Thermometer
FLUKE-568	IR Thermometer
FLUKE-568 Ex	Intrinsically Safe IR Thermometer

Contact your local distributor for price and availability. fluke.com/findus

Fluke 50 Series II Thermometers

Lab accuracy in a field thermometer





The Fluke 50 Series II Contact Thermometers offer fast response and laboratory accuracy in a rugged handheld test tool. • Laboratory accuracy: ±(0.05% + 0.3° C)

- Large backlit dual display
- Min/Max/Avg
- Electronic offset function maximizes overall accuracy
- Supports a wide range of thermocouple types
- Temperatures displayed in °C, °F, or Kelvin (K)
- Three-year warranty

Powerful data logging capabilities

The Fluke 53 II B and 54 II B can log up to 500 points of data to internal memory.

- User-adjustable recording intervals
- Real-time clock captures the exact event time
- Recall function lets logged data be easily reviewed
- Download data to optional FlukeView™ PC software



Fluke 51 II

Specifications	51 II	52 II	53 II B	54 II B		
Thermocouple types	J,K,T,E	J,K,T,E	J,K,T,E,N,R,S	J,K,T,E,N,R,S		
Number of inputs	Single	Dual	Single	Dual		
Time stamp	Relative Time	Relative Time	Time of Day	Time of Day		
Dual display with backlight	•	•	•	•		
Min/Max/Avg recording	•	•	•	•		
(T1-T2) True differential	-	•	-	•		
Data logging up to 500 points	-	-	•	•		
IR data port for interface to PC	-	-	•	•		
Compatible with FlukeView™ Software	-	-	•	•		
Battery life	1000 hours typical, AA					
Size (HxWxD)	173 mm × 86 mm × 38 mm					
Weight	0.4 kg					

Temperature range and accuracy	
J-type Thermocouples	-210° C to 1200° C (-346° F to 2,192° F)
K-type Thermocouples	-200° C to 1372° C (-328° F to 2,501.6° F)
T-type Thermocouples	-250° C to 400° C (-418° F to 752° F)
E-type Thermocouples	-150° C to 1000° C (-238° F to 1,832° F)
N-type** Thermocouples	-200° C to 1300° C (-328° F to 2,372° F)
R** and S-type** Thermocouples	0° C to 1767° C (32° F to 3,212.6° F)
Temperature accuracy above -100° C:	
J, K, T, E, and N-type**	±[0.05% + 0.3° C]
R** and S-type**	±[0.05% + 0.4° C]
Temperature accuracy below -100° C:	
J, K, E, and N-types	±[0.20% + 0.3° C]
T-type	±[0.50% + 0.3° C]

Recommended Accessories 80PK-25 80PK-27 SureGrip™ Industrial Surface Temperature SureGrip™ Piercing Temperature Probe Probe 80PK-10 Pipe Clamp Temperature Probe

Included Accessories

Fluke 50 Series Thermometers: Impact Absorbing Holster, Two Bead Probe Thermocouples 80PK-1 (54 and 52 only), One Bead Probe Thermocouple, 80PK-1 (51 and 53 only).

Ordering Information

FLUKE 51 II	Single Input Digital Thermometer
FLUKE 52 II	Dual Input Digital Thermometer
FLUKE 53 II B	Single Input Digital Thermometer with Data Logging
FLUKE 54 II B	Dual Input Digital Thermometer with

Data Logging

Infrared Thermometers

Contact your local distributor for price and availability. fluke.com/findus



Fluke 572-2



Infrared Camera Selection Guide





≥ 2 hours continuous (without WiFi) (without WiFi) (without WiFi)



Fluke Thermal Imaging Software







Fluke Connect™ Desktop for Thermal Imaging

Get the most out of your thermography program. Create professional inspection reports in minutes while efficiently capturing full radiometric data to support preventive and predictive maintenance programs with the new Fluke Connect™ Desktop software.

- Easily edit and optimize images to visualize equipment status
- Combine infrared and visible images for simpler analysis using picture-in-picture mode and image blending
- Create detailed reports in minutes and save customized report templates
- Connect a camera to your computer wirelessly with the built in Fluke Camera WiFi
- Never lose your data automatically save all your thermal images and reports in the Fluke Connect™ cloud storage, accessible anytime on PC or Mobile App
- Organize images and easily search by asset, severity, and image title
- Enhance inspection credibility by incorporating live readings of energized circuits and operational equipment from Fluke Connect™ enabled test tool into your infrared
- Share images immediately with team members with the Fluke Connect™ Mobile App

Fluke Connect™ Desktop has all the same features as SmartView and more, with intuitive navigation interface and the advantage of Fluke Connect™ cloud storage. Download Fluke Connect™ Desktop FREE from the Fluke website and the Fluke Connect™ Mobile app from the mobile IOS or Android app store.





Get more out of your thermal inspections with Fluke Connect™ Wireless Modules

You can connect up to 5 Fluke Connect™ Wireless modules with a Fluke Infrared Camera, whileincorporating live readings on the infrared image. The table below highlights a list of Fluke Connect™ enabled tools that are compatible with Fluke Infrared Cameras.

Fluke Connect™ Compatibility Guide

Fluke Connect™ Tools	Fluke Connect™ App	3000 FC	902 FC	376/375 /374 FC	a3000 FC a3001 FC	a3002 FC	a3003 FC a3004 FC	v3000 FC	v3001 FC	t3000 FC
Fluke Connect™ App – iOS and Android™	•	•	•	•	•	•	•	•	•	•
TiX580 Infrared Camera	•	•	•	•	•	•	•	•	•	•
Ti480PRO Infrared Camera	•	•	•	•	•	•	•	•	•	•
PTi120/TiSxx Series Infrared Cameras	•	•	•	•	•	•	•	•	•	•





Get the FREE Fluke Connect™ App!

By using the Fluke Connect™ App, you can efficiently and safely capture, store and share maintenance data without leaving the field. You can securely connect and collaborate with others, so they can see what you see.









Industrial Imaging

OV with Std lens

UDP, TCP, RTCP, RTP

IPv4, U RTSP, F

IPv4, UDP, TCP, RTSP, RTCP, RTP

, UDP, TCP, , RTCP, RTP

IPv4, (RTSP,

TCP,

UDP, T RTCP,

IPv4, I RTSP,

12V to 24 V DC, PoE

Industrial Imaging

Fluke PTi120 400C Pocket Infrared Camera





Fluke PTi120

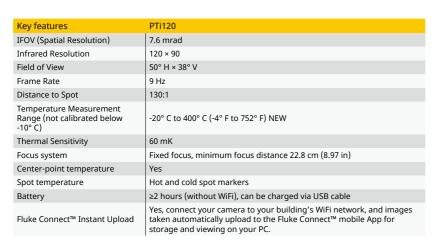




Infrared troubleshooting power you need, right in your pocket

A fully radiometric thermal imager with a 3.5" LCD touchscreen that offers IR-Fusion™ to blend a visible light image with an infrared image to easily locate problems. The PTi120 has built in WiFi that allows you to connect your camera to the Fluke Connect[™] App and share images remotely with your team. Compact and easy to use, the Fluke PTi120 should be your first line of defense with maintenance work.

- 120 × 90 infrared resolution (10,800 pixels)
- -20° C to 400° C (-4° F to 752° F) temperature measurement range
- 8.89 cm (3.5 in) LCD touchscreen display with intuitive interface for easy troubleshooting
- 1 m (3.28 ft) drop tested
- IP54 enclosure rating
- Touchscreen IR-Fusion blends a visible light image with an infrared image, simply slide your finger across the screen to adjust
- Two-year warranty









Get the FREE Fluke Connect[™] App!

By using the Fluke Connect™ App, you can efficiently and safely capture, store and share maintenance data without leaving the field. You can securely connect and collaborate with others, so they can see what you see.





Learn more

fluke.com/sea.pti120

Fluke Connect (FC) available in selected countries. Contact your local Fluke distributors to find out more.

Included Accessories

Soft Case, Lanyard and USB cable.

Ordering Information

FLK-PTI120 9HZ 400C

Fluke Pocket Infrared Camera

Contact your local distributor for price and availability. fluke.com/findus

Fluke Performance Series Infrared Cameras

TiS20+, TiS20+ MAX, TiS55+, TiS60+ and TiS75+









Easy-to-use frontline troubleshooting

Easily see potential problems with blended IR and visual images, on a large 8.89 cm (3.5 in) LCD display. Fluke Performance Series Infrared Cameras are one-handed pistol grip models that make on-site thermal inspections quicker and easier.

Manual Focus

Focus is one of the most critical aspects of a thermal image because it cannot be altered with software. Both manual and fixed focus options are available on the latest TiS55+ and TiS75+ infrared cameras, leveraging the advantages of both optical systems and making this ideal for both seasoned thermographers and users new to thermography.

- Measure up to 550° C (1,022 °F) (TiS55+ and TiS75+) to handle a wide range of applications
- Manual and fixed focus (TiS55+ and TiS75+)
- IS3 and AVI video recording (TiS75+ only)
- Dew point calculation (TiS75+ only)
- Digitally document critical information with your infrared image using IR-PhotoNotes™ or voice annotation with TiS55+, TiS60+ and TiS75+
- Make decisions in real time—wirelessly sync images from your camera, create and email reports all with your smart phone and the Fluke Connect™ App
- Monitor battery charge and avoid unexpected loss of power with the smart battery with LED charge indicator
- Two-year warranty

Key features	TiS20+	TiS20+ MAX	TiS55+	TiS60+	TiS75+
Infrared Resolution	120 × 90 (10,800 pixels)	120 × 90 (10,800 pixels)	256 × 192 (49,152 pixels)	320 × 240 (76,800 pixels)	384 × 288 (110,592 pixels)
IFOV (Spatial Resolution)	7.6 mrad	7.6 mrad	1.91 mrad	1.86 mrad	1.91 mrad
Field of View	50° H × 38° V	50° H × 38° V	28° H × 20° V	34.1° H × 25.6° V	42° H × 30° V
Thermal Sensitivity (NETD)**	60 mK	60 mK	40 mK	45 mK	40 mK
Temperature Measurement Range	-20° C to 150° C (-4°F to 302° F)	-20° C to 400° C (-4°F to 752° F)	-20° C to 550° C (-4°F to 1,022° F)	-20° C to 400° C (-4°F to 752° F)	-20° C to 550° C (-4°F to 1,022° F)
Focus Systems	Fixed focus	Fixed focus	Manual focus and 1 meter focus marker	Fixed focus	Manual focus and 1 meter focus marker
IR-Fusion AutoBlend Continuous 0% to 100%.	Yes	Yes	Yes, including Picture in Picture (PIP)		
Display	8.89 cm (3.5 in) (landscape) 320 × 240 LCD touch screen	8.89 cm (3.5 in) (landscape) 320 × 240 LCD touch screen	8.89 cm (3.5 in) (landscape) 640 × 480 LCD touch screen	8.89 cm (3.5 in) (landscape) 320 × 240 LCD	8.89 cm (3.5 in) (landscape) 640 × 480 LCD touchscreen
Colour Alarms	-	-	Yes ¹	Yes ¹	Yes ¹
IR PhotoNotes and Voice Annotations	-	-	Yes ¹	Yes¹	Yes ¹
c 6	Fluke Connect™ I	Fluke Connect™ Desktop Software - full analysis and reporting software with access to the			

¹ Refer to product datasheet for more details

Fluke Connect™ system

Fluke Connect (FC) available in selected countries. Contact your local Fluke distributors to find out more.

Recommended Accessories TI-TRIPOD3 TI-SBP3 Tripod Mounting Additional Smart . Accessorv Battery 00 TI-CAR CHARGER TI-SBC3B Smart Battery Car Chargei Charger

CV400

Window



Combine with a Fluke ClirVu™ Infrared Window to conduct thermal inspections without having to open the electrical panel.

Included Accessories

TI-BLUETOOTH

Infrared camera: AC Power Supply, USB Cable and Soft Transport Bag.

Fluke TiS55+ also includes 4GB Micro-SD-Card, One lithium-ion Smart Battery, Hard Carrying Case and adjustable Hand Strap.

Fluke TiS60+ & TiS75+ also includes 4GB Micro-SD-Card, Two-bay Smart Battery Charger, Two Lithium-ion Smart Batteries, Hard Carrying Case and adjustable Hand Strap

Ordering Information

FLK-TIS20+ 9Hz	Infrared Camera
FLK-TIS20+ MAX 9Hz	Infrared Camera
FLK-TIS55+ 9Hz	Infrared Camera
FLK-TIS55+ 27Hz	Infrared Camera
FLK-TIS60+ 9Hz	Infrared Camera
FLK-TIS60+ 30Hz	Infrared Camera
FLK-TIS75+ 9Hz	Infrared Camera
FLK-TIS75+ 27Hz	Infrared Camera

Contact your local distributor for price and availability. fluke.com/findus

Industrial Imaging



Fluke Professional Series Infrared Cameras

Ti401 PRO and Ti480 PRO





Get clear, accurate focus on objects near and Recommended Accessories far with MultiSharp™ focus1, or focus with laser speed and accuracy on your designated target with LaserSharp® Auto Focus. Easily navigate the menu and view images on a 3.5 inch, 640 x 480 touchscreen. Get more from your camera with an optional 2x or 4x telephoto or wide angle smart lens – no calibration required. New models to the Professional Series family are the Ti480 PRO and Ti401 PRO Infrared Cameras, capturing smaller temperature differences with increased thermal sensitivity on an intuitive touch screen.

- Get 4x the pixel data with SuperResolution, which captures multiple images and combines them to create a 1280 x 960 image (Ti480 PRO)
- Save time. Wirelessly sync images directly from your camera to the Fluke Connect™ system, and attach to an asset record or work order
- Reduce the need to take notes in the field with two helpful features:

 IR-PhotoNotes™ annotation system captures digital images of the surrounding area to reference conditions or actual location
 Any additional details can also be saved to the
- file with voice annotation
 Field of view: (34° H × 24° V)
- View all your assets with increased accuracy using one of the four optional lenses (macro, wide-angle, 2x telephoto and 4x telephoto)
- Two-year warranty

Recommended Accessories				
FLK-LENS/TELE2	FLK-LENS/WIDE2			
Telephoto infrared lens (2x magnification)	Wide-angle infrared lens			
TI-VISOR3 Thermal Imager Visor	TI-TRIPOD3 Tripod Mounting Base			
4.				
TI-BLUETOOTH Bluetooth Handset	TI-SBP3 Additional Smart			
TI-SBC3B Additional Smart Battery Charger	Battery			

Key features	Ti401 PRO	Ti480 PRO	
Infrared resolution	640 × 480 (307,200 pixels)		
SuperResolution	No	Yes, in software. Captures and combines 4x the data to create a 1280 × 960 image	
IFOV with standard lens (spatial resolution)	0.93 mrad,	D:S 1065:1	
Field of view	34° H	× 24° V	
Thermal sensitivity (NETD)**	≤ 0.075 °C at 30 °C target temp (75 mK)	≤ 0.05° C at 30° C (86° F) target temp (50 mK)	
Temperature measurement range	-20 °C to +650 °C	-20° C to 1000° C (-4° F to 1,832° F)	
LaserSharp™ Auto Focus and Manual Focus	Yes with MultiSha	arp™ Focus option	
Laser distance meter	Yes, calculates distance to the target for precisely focused images and displays distance on screen		
Optional lenses	Wide angle, 2x and 4x telephoto, 25 micron macro		
IR-Fusion technology	Yes, adds the context of the visible details to your infrared image		
Display	8.89 cm (3.5 in) (landscape),	640 × 480 LCD Touch Screen	
Frame rate	60 Hz or 9	Hz versions	
Voice annotation		e per image; reviewable playback on adset available but not required	
Text annotation	Yes. Including standard shortcuts as	well as user programmable options	
Video recording	No	Standard and radiometric	
Remote control operation	Remote display through Fluke Connect	Remote display and control operation through Fluke Connect™	
Alarms	High temperature, low temperator	ure, and isotherms (within range)	
Wireless connectivity	Fluke Connect™ app compatible. Wireless connectivity to PC, iPhone™ and iPad™ (iOS 4s and later), Android™ 4.3 and up, and WiFi to LAN		
Software	Full analysis and reporting software with access to the Fluke Connect™ system		



FLK-TI480 PRO Infrared Camera

FLK-TI480 PRO Infrared Camera

Contact your local distributor for price and availability. fluke.com/findus

Fluke Ultra Series Thermal Imagers

Ti480U, Ti401U, Ti300U



The NEW Fluke Ultra Series Thermal Cameras is designed to provide advanced visual infrared experience. It comes with a smart intuitive user interface, increased thermal sensitivity to capture the smallest differences and the latest technology for on-screen clarity. A professional 640 x 480 Infrared Camera with improved spatial resolution and UltraFocus focusing technology makes the Ti480U/401U/300U go-to camera range for the professional moving to the next level.

With the support of the new sensor, the Ultra Series now makes a substantial progress in image quality, focus speed and test functions, taking performance to whole new level. While retaining the classic industrial design, it improves the user experience and help users with their efficient practical workflow.

We believe that every day Thermographers are making things better around them, and Fluke is striving for this common goal together with its users.



	Fluke Ti480u	Fluke Ti401u	Fluke Ti300u
Basic Parameters			
IR resolution	640 × 480	640 × 480	384 × 288
SuperResolution	1280 × 960	-	-
Detector type	Uncoole	ed focal plane infrared o	letector
Thermal sensitivity (NETD) @ 30 °C	50 mk (0.05 °C)	75 mk (0.075 °C)	75 mk (0.075 °C)
Spectral response		7 to 14 μm	
Image frame rate	30 Hz	30 Hz	30 Hz
Lens Field of View (FOV)		25° x 19°	
Spatial resolution (IFOV)	0.68 mrad	0.68 mrad	1.14 mrad
Minimum imaging distance	0.25	5 m	0.1 m
Lens focal distance	f 24	4.8	f 15
Focus		Auto / Manual Focus	
Lens recognition		Auto	
Optional lens		2x telephoto lens 4x telephoto lens Wide-angle lens	
Digital Zoom	1-10x	1-10x	1-4x

Fluke Connect (FC) available in selected countries.

Contact your local Fluke distributors to find out more.

Packing List	Ti300U	Ti401U	Ti480U
The Imager (standard field angle lens included)	√	√	√
SBP3 smart battery pack	2	2	2
SBC3 power adapter	√	√	√
SBC3 battery charging base	√	√	√
Hand strap	√	√	√
Hard carrying case	-	√	√
Carrying case	√	-	-
Soft carrying case	√	-	-
Mini HDMI cable	√	√	√
USB-A dual-port cable	√	√	√
32GBMICROSD	√	√	√
Quick reference guide	√	√	√
Safety information	√	√	√
Detection report	√	√	√

Contact your local distributor for price and availability. fluke.com/findus

Fluke Connect (FC) available in selected countries. Contact your local Fluke distributors to find out more.

Industrial Imaging

Fluke TiX800 Expert Series Thermal Imagers

TiX870, TiX875, TiX880, TiX885



Fluke TiX880

The new Fluke TiX885, TiX880, TiX875 and TiX870 thermal cameras, with 640 x 480 resolution, provide superior image quality needed for experimental R&D applications.

With the help of Super Resolution technology, the high-end TiX885 and TiX880 cameras can produce images with a resolution of 1280 x 960 pixels.

Capture images while moving or use the camera for measuring fast changing temperatures with a frame rate of up to 30 Hz

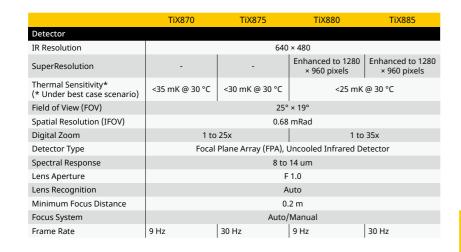
Industrial OEMs can reliably identify devices, arrange test data, and mark GPS location using QR code recognition feature in TiX885, TiX880, and TiX870.

TiX885 and TiX875 facilitates recording of fully radiometric IR video stream + data stream. The SmartView IR software allows the captured data to be transferred into a PC to aid in secondary analysis.

These cameras can auto-focus from a far distance for outdoor surveys, and the 1 to 35x continuous digital zoom [1 to 25x for TiX875 and TiX870] enables the user to clearly observe fine details on such far-off targets.

180 ° articulating lens, 5.5-inch OLED responsive touch screen and > 3.5 hours of battery life offers flexibility, comfort & convenience in operating the camera.

The TiX885 and TiX880 are ideal for high temperature testing as they can measure up to 1200°C.



Included Accessories

Fluke TiX800 Thermal Imager (standard lens): Rechargeable Liion batteries (3 pcs), Power adapter, Battery charger, Lens Cover, USB Cable, HDMI Cable, High-Speed SD Card, Card Reader, Safety Information, Quick Reference Guide, Hand Strap, Neck Strap, Hard Carrying Case

Recommended Accessories

TIX800 4X TELE, TIX800 7C TELE LEN TIX800 2X TELE, TIX800 12C TELE LEN

TIX800 2X WIDE, TIX800 46C WIDE LEN

TIX800 MACRO, TIX800 50UM MACRO

TIX800 MACRO, TIX800 25UM MACRO

Contact your local distributor for price and availability. fluke.com/findus

Fluke TiX1000 Expert Series Thermal Imager

TiX1060



Fluke TiX1060

The 1024x768 resolution new Fluke TiX1060 thermal imager has superior image quality and is well suited for R&D engineers and scientific researchers. With frame rate up to 25Hz, it retains more details and meets the testing needs of capturing fast changing temperature. For outdoor applications, the TiX1060 comes with auto-focus technology, allowing user to focus on target from

comes with auto-focus technology, allowing user to focus on target from a far distance. Coupled with 1 to 35x continuous digital zoom, user can view small details on distant targets clearly.

With a full 180-degree articulating lens, the Fluke TiX1060 Infrared Camera allows thermographers to easily navigate over, under, and around objects to preview and capture images with ease. Combined with the Super Resolution technology, the TiX1060 can achieve image resolution of 2048 × 1536 pixels.

It also comes with the Fluke SmartView®

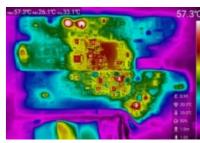
IR software, which provides a suite of advanced tools to view, optimize, annotate, and analyze infrared images, and generate fully customizable professional reports.

	TiX1060
Detector	
Image resolution	1024 x 768
Super Resolution	Yes (enhanced to 2048x1536 pixels)
Thermal sensitivity (NETD)	<30 mK @ 30 °C
Field of View (FOV)	25° x 19° (standard lens)
Spatial Resolution (IFOV)	0.43 mrad
Digital zoom	1x to 35x continuous zoom
Detector type	Focal Plane Array (FPA), uncooled infrared detector
Detector pixel spacing	17 μm
Spectral range	8 to 14 μm
Lens aperture	F1.0
Lens recognition	Auto
Minimum focus distance	0.5 m
Focus System	Auto [motorized focus]/Manual
Frame rate	13 Hz, full window; 25 Hz, 1/2 window

Fluke Connect (FC) available in selected countries.

Contact your local Fluke distributors to find out more.





Included Accessories

Fluke TiX1060 Thermal Imager (standard lens): Rechargeable Liion batteries (3 pcs), Power Adapter, Battery charger, Lens Cover, USB Cable, HDMI Cable, High-Speed SD Card, Card Reader, Safety Information, Quick Reference Guide, Hand Strap, Neck Strap, Hard Carrying Case

Recommended Accessories

TIX1000 4X TELE, TIX1000 9C TELE LEN
TIX1000 2X TELE, TIX1000 12C TELE

TIX1000 2X WIDE, TIX1000 46C WIDE LEN

TIX1000 MICRO, TIX1000 50UM MICRO

Contact your local distributor for price and availability. fluke.com/findus



Fluke Connect (FC) available in selected countries. Contact your local Fluke distributors to find out more.

Mounted Infrared Cameras

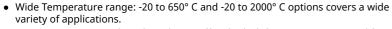
RSE30 and RSE60



Fluke RSE60

The wide temperature range & high IR resolution makes the Fluke RSE30 & RSE60 thermal imaging cameras suitable for a variety of applications including critical asset monitoring, hotspot detection, research & development, process monitoring and quality control, amongst others. Our standard, wide angle and telephoto lens options capture exceptionally detailed images required for such challenging applications.

The SmartView IR software gives customers the tools they need to watch, plot, analyze and report temperature data. The SDK enables app developers to produce intricate, feature-rich apps that live up to the demands and expectations of their users.



- 384×288 & 640×480 infrared resolution offers high-definition images crucial for hotspot detection.
- Autofocus feature allows capturing sharp images.
- Video streaming at a 30Hz frame rate for smooth visual experience.
- SmartView IR software to stream radiometric videos, capture fully-radiometric videos or images, analyze images, plot data trends, export data, customize reports.
- User-definable measurement points, lines, and areas to meet the challenging needs of multi-point testing.
- Access the full potential of our RSE 30/60 series infrared cameras with Open API SDK.

Key features	RSE30	RSE60	RSE30H	RSE60H
IR Resolution	384 × 288	640 × 480	384 × 288	640 × 480
Thermal Sensitivity (NETD)	<50 mk	<30 mk	<50 mk	<30 mk
Spectral Response	7.5 µm to 14 µm			
Focus	Auto			
Temperature Range	-20 °C to 650 °C	-20 °C to 650 °C	-20 °C to 2000 °C	-20 °C to 2000 °C
Temperature Accuracy	±2 °C or ±2 % of reading, whichever is greater			
Fully-Radiometric Streaming	Yes. 30Hz	Yes. 25Hz	Yes. 30Hz	Yes. 25Hz
Video	Frequency: 30 Hz Bandwidth: 1.8 Mb Sub stream Pixel: 384 x 288 Frequency: 30 Hz Bandwidth: 100 Kb	Frequency: 30 Hz Bandwidth: 2.5 Mb Sub stream Pixel: 320 x 240 Frequency: 30 Hz Bandwidth: 100 Kb	Frequency: 30 Hz Bandwidth: 2.5 Mb Sub stream Pixel: 320 x 240 Frequency: 30 Hz Bandwidth: 100 Kb	Frequency: 30 Hz Bandwidth: 2.5 Mb Sub stream Pixel: 320 x 240 Frequency: 30 Hz Bandwidth: 100 Kb
Alarm Input/ Output	1 relay output: load capacity: 24 V, 1.5 A 1 optocoupled output: output capacity: 3.3 to 24 V, 35mA maximum output current 1 channel optocoupled input: input capability: 3.3 to 24 V, 5mA-to-15mA input current			
Access standard	ONVIF			
Network Protocols	IPv4, UDP, TCP, RTSP, RTCP, RTP			
Concurrent Access	10 channels for mainstream and substream, 1 channel for fully-radiometric			

Included Accessories

Thermal Camera (standard lens). Lens cap (removable), Power adapter, Power connector, Ethernet cable 3 m, Allen wrench, Tripod adapter block, Mounting screw M2X5, Documents including each of Safety Sheet and Quick Reference Guide, Quality Certificate and Warranty Card

Recommended Accessories

RSE30-2X WIDE LEN RSE30H-2X TELE LEN RSE30H-2X WIDE LEN RSE60-2X TELE LEN **RSE60-2X WIDE LEN** RSE60H-2X TELE LEN

RSE60H-2X WIDE LEN

RSE30-2X TELE LEN

Ordering Information

FLUKE-RSE30/ Infrared Camera APAC FLUKE-RSE60/ Infrared Camera APAC FLUKE-RSE30H/ Infrared Camera FLUKE-RSE60H/ Infrared Camera

Contact your local distributor for price and availability. fluke.com/findus

Fluke TiX580 Infrared Camera











Tablet-sized screen, more details, faster decisions.

You need maximum flexibility with an ergonomic design that allows you to easily navigate over, under and around

- Resolution: 640 × 480 (307,200 pixels)
- (-4° F to 1,832° F)
- with a 5.7 inch responsive touchscreen
- See the details you need with smart lenses-
 - 2x and 4x telephoto, wide angle, and 25 micron macro—no calibration required, interchangeable between compatible cameras
- See, save and share from the field and connect to the largest selection of wireless test and measurement tools with the Fluke Connect™ App

Focus, exclusive to Fluke, uses its built-in laser distance meter to calculate the distance to your designated target with pinpoint accuracy. On target and in-focus. Every. Single.

640 × 480 images (307,200 pixels) into 1280 × 960 images (1,228,800 pixels). That's 4× the resolution and pixels with SuperResolution.

Key Features	TiX580
Infrared resolution	640 × 480 (307,200 pixel) SuperResolution mode: 1280 × 960 (1,228,800 pixels) (TiX580)
IFOV (spatial resolution)	0.93 mrad
Field of view	34° H × 24° V
Distance to spot	753:1
Thermal sensitivity	≤ 0.05° C at 30° C (86° F) target temp (50 mK)
Temperature range	-20° C to 1000° C (-4° F to 1,832° F)
Optional lenses	Pre-calibrated smart optional lenses: wide angle, 2x telephoto
Wireless connectivity	Fluke Connect™ app compatible. Wireless connectivity to PC, iPhone™ and iPad™ (iOS 4s and later), Android™ 4.3 and up, and WiFi to LAN
IR-Fusion™	AutoBlend™ mode, continuous blending
Picture-In-Picture (PIP)	Yes
Software	Fluke Connect™ (web, mobile and desktop)
Video recording	Standard and radiometric
Alarms	High temperature low temperature and isotherms (within range)

hard-to-reach objects. With a lens that rotates a full 240 degrees and a tabletsized 5.7 inch touchscreen LCD, you can aim and focus from a comfortable angle and easily capture targets that were once impossible to see.

- Temperature range: -20° C to 1000° C
- Premium in-field viewing experience
- Two-year warranty

LaserSharp™ Auto Focus

Get an in-focus image like never before with just a touch of a button. LaserSharp™ Auto

Brilliant Image Quality

Enhanced image quality and temperature measurement accuracy can turn your

Key Features	TiX580
Infrared resolution	640 × 480 (307,200 pixel) SuperResolution mode: 1280 × 960 (1,228,800 pixels) (TiX580)
IFOV (spatial resolution)	0.93 mrad
Field of view	34° H × 24° V
Distance to spot	753:1
Thermal sensitivity	≤ 0.05° C at 30° C (86° F) target temp (50 mK)
Temperature range	-20° C to 1000° C (-4° F to 1,832° F)
Optional lenses	Pre-calibrated smart optional lenses: wide angle, 2x telephoto
Wireless connectivity	Fluke Connect™ app compatible. Wireless connectivity to PC, iPhone™ and iPad™ (iOS 4s and later), Android™ 4.3 and up, and WiFi to LAN
IR-Fusion™	AutoBlend™ mode, continuous blending
Picture-In-Picture (PIP)	Yes
Software	Fluke Connect™ (web, mobile and desktop)
Video recording	Standard and radiometric
Alarms	High temperature, low temperature, and isotherms (within range)

Fluke Connect (FC) available in selected countries. Contact your local Fluke distributors to find out more. **Recommended Accessories**



FLK-LENS/TELE2 infrared lens (2x



FLK-LENS/WIDE2 Wide-angle infrared



FLK-LENS/25MAC2 Infrared 25 Micron

TI-BLUETOOTH

magnification)

TI-CAR-CHARGER Car Charger

FLK-TIX5XX-NECK

CV400 ClirVu™ Infrared



Included Accessories

AC Power Supply and Battery Pack Charger, Two Lithium-ion Smart Battery Packs, USB Cable, HDMI Video Cable, Hard Carrying Case, Adjustable Neck and Hand Strap, Bluetooth Headset (where available), Warranty Registration Card and Calibration Certificate. Flash Drive includes Product Manuals and SmartView™ Software.

Ordering Information

FLK-TiX580 9Hz Infrared Camera

FLK-TiX580 60Hz Infrared Camera



Fluke CV Series ClirVu[™] Infrared Windows





Fluke CV200



Fluke CV300

Compliance without compromise. Safety without sacrifice.

- Increase the safety and speed of electrical thermal imaging inspections with Fluke ClirVu™ IR Windows. Reduce the risk of arcflash and electrocution, increase the safety of your personnel and reduce the time and cost of preventive maintenance.
- Save time with a quick and easy five-minute or less installation
- One technician
- One hole with standard Greenlee™ punch - Panel door does not need to be removed
- Grounds instantly to metal enclosure with patent-pending AutoGround™ process - Maintains panel arc test ratings up to 63 kA when properly installed
- Torture Tested™ to the highest arc blast test ratings
- IEEE C37.20.7: 63 kA Arc tested at KEMA, UL 50/50E/50V, UL 1558, IEC 60529-1: IP67, IEC 60068, NEMA 4/12, CSA C22.2 NO.14-13:2012, and CE
- Convenience of both quick turn (CV400, CV300, CV200) or security keyed access (CV401, CV301, CV201)
- Available in three sizes 50 mm (1.96 in), 75 mm (2.95 in) and 95 mm (3.74 in)
- Work permit requirements and NFPA 70E processes are significantly reduced
- Full PPE is often not required so inspections are done faster and more conveniently
- Lifetime replacement warranty against manufacturing defects

Quick & Easy Installation in 5 minutes or less
Access (M)
AND THE PARTY OF T

Specifications	CV400	CV401	CV300	CV301	CV	200
Size	95 mm	(3.74 in)	75 mm	(2.95 in)	50 mm	(1.96 in)
Voltage Range	Any					
NEMA Environment Type	Type 4/12 (indoor/outdoor)					
AutoGround™	Yes					
ClirVu™ Optic	Yes					
Operating temperature	-40° C to	232° C and 2	260° C (-40° F t	o 449.6° F an	d 500° F) Inte	rmittent
Body material		EZAC & ZA-2	27 High Stren	gth Zinc/ Alur	minum Alloy	
Ratings and testing						
Arc-Tested (IEEE C37.20.7)			63 kA for 30 c	ycles @ 60 Hz	2	
UL 50V component recognition	Yes					
UL 50, UL 50E/NEMA Environmental Rating	NEMA Type 4/12					
UL 1558	Yes					
CSA C22.2 No. 14, No. 94	Yes					
CSA Type Rating	Type 4, 12					
Ingress Protection (IEC 60529)	IP67					
Lloyds Register	IEC 62271-100, 200: Up to 11 kV marine switchgear, indoor or outdoor (offshore only), IP65					
Vibration rating	IEC 60068-2-6: 10-2000 Hz, 5 g peak, 2.5 hr/axis					
Humidity rating	IEC 60068-2-3: 40 C, 93% RH, 504 hr.					
Install						
Actual mounting hole diameter required	115.42 mm (4.54 in)		89.89 mm (3.53 in)		61.37 mm	n (2.41 in)
Greenlee Punch Kit = Punch/ Die	742BB = 2984AV/2983AV		739BB = 1431AV/1432AV		76B 441AV,	_
Door Latch	Hand Turn	Security Key	Hand Turn	Security Key	Hand Turn	Security Key
Optics						
Optic insert diameter	95 mm	(3.74 in)	75 mm	(2.95 in)	50 mm	(1.96 in)

Hand Turn Door Latch (CV200, 300 & 400), Security Key Door Latch (301, 401) and Warranty Statement. Fluke IR Windows are supplied complete, assembled and ready for installation. **Ordering Information** FLUKE-CV200 50 mm, Infrared Window, Hand Turn Door Latch 75 mm, Infrared FLUKE-CV300 Window, Hand Turn Door Latch FLUKE-CV301 75 mm, Infrared Window, Security Key Door Latch FLUKE-CV400 95 mm, Infrared Window, Hand Turn Door Latch FLUKE-CV401 95 mm, Infrared Window, Security Key Door Latch

Included Accessories

Contact your local distributor for price and availability. fluke.com/findus

Fluke Lenses

Telephoto, Wide Angle and Macro

Telephoto Lenses



The difference between finding and potentially diagnosing the problem, and not seeing any discrepancy at all. Get the detail you need, even from a distance, when you view your target magnified twotimes or four-times more than a standard lens.









Wide angle lenses

When working in a tight space, see a larger target from a close distance. Ideal for roof and building inspection or for looking through IR Windows.





Standard

wide lens see both sides of the building at the same time from the same distance



Macro lenses

Get an incredibly detailed image of very small objects—as small as 25 microns, smaller than the average human hair.





Standard

25 micron macro lens — see detail in very small

Model number	Ti401Pro	Ti480PRO	TiX580
TI-LENS/TELE2 2x Telephoto infrared smart lens†	•	•	•
TI-LENS/WIDE2 Wide Angle Infrared Smart Lens†	•	•	•
FLK-Lens/4xTele2 4x Telephoto infrared smart lens†	•	•	•
FLK-Lens/25Mac2 25 Micron macro infrared smart lens†	•	•	•

 $\verb|The| lenses for TiX580, Ti480PRO| are smart lenses. They come pre-calibrated and don't require calibration to a specific lenses for the time of the second content of the se$ camera, so they are interchangeable between compatible cameras.

2x Telephoto FLK-LENS/ **Infrared Smart** TELE2 FLK-Lens/ 4x Telephoto Infrared Smart 4xTele2 Lens FLK-Lens/ Wide Angle Infrared Smart Wide2 Lens FLK-Lens/ 25 Micron Macro

25Mac2

Lens

Infrared Smart

Industrial Imaging



Fluke DS703 FC Diagnostic Video Borescope







Gritty, industrial, expensive equipment? Diagnose before teardown with the durability of Fluke

Industrial inspections require a powerful diagnostic borescope designed to stand up to the dirtiest, most harsh environments. Fluke Diagnostic Scopes put high-resolution images in the palm of your hand.

- High definition probe with dual-view camera
- High Resolution DS703 FC- 1280 × 720 (921,600 pixels)
- · Processing speeds that render a smooth, clear, consistent image
- 17.78 cm (7 in)' LCD screen for easy viewing
- Improved battery charging and management
- Macro to micro zoom function
- Adjustable lighting to capture the best image
- Up is Up™ technology for an appropriate orientation, regardless of the probe location
- True 720p video
- Two-year warranty

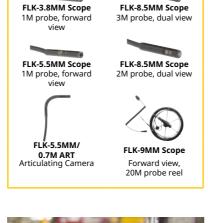
Fluke DS703 FC High Resolution Diagnostic

Scope with Fluke Connect™

Rugged, high-definition industrial 1280 × 720 resolution Diagnostic Scope with Wi-Fi capability. 22.86 cm (7 in) capacitive touch screen for accurate diagnostics in difficult to reach spaces. 720p video recording inspection camera. Up is Up™ technology rotates the display screen to allow for consistent image display, regardless of the orientation of the probe.

	DS703 FC
LCD screen	
Туре	7 inch Capacitive touch screen
Refresh rate	30 hz
LED backlight	Adjust display brightness for optimal viewing
Communication	
Wireless interface	WiFi 802.11b/g/n, Range: 10.06 m (33 ft)
Data transfer	USB and micro HDMI cable
FlukeConnect™	Save and share images via FlukeConnect™
Instant upload to the cloud	Yes, with FlukeConnect™
General features	
Color palettes	Visible light, grayscale or inverted
Internal memory	6 GB
Physical buttons	Intuitive, easy to navigate button technology, 4 functional keys, 4 navigational, one capture or select button
Carrying case	Protective EVA case
Strap	Hand Strap and Neck Strap included
Power adapter	AC adapter/battery charger input
Battery	6400mAh 3.7 volt rechargeable internal li-ion battery
Battery life	3 hours at 50 % LED brightness
Dimensions	17.73 x 22.48 cm (6.98 x 8.85 in)
Weight	0.88 Kg (1.95 lbs)
General specifications and sa	fety
Tablet	IP54, dust protected and protected against water projected from a nozzle
Drop test	2 meter (6.56 feet)
Operating temperature	0 °C to 45 °C (32 °F to 113 °F), 50 °C (122 °F) for less than 10 minutes
Storage temperature	-40 °C to 60 °C (-40 °F to 140 °F)
Operating humidity	90 % at 35 °C (95 °F), 75 % at 40 °C (104 °F), 45 % at 50 °C (122 °F)
Warranty	2 years

Fluke Connect (FC) available in selected countries. Contact your local Fluke distributors to find out more.



Recommended Accessories



Included Accessories

Hand strap, neck strap, USB cable, AC power supply/battery charger, TPAK Magnetic Hanger, protective EVA case.

Ordering Information

FLK-DS703 FC

High Resolution Diagnostic Scope

Contact your local distributor for price and availability. fluke.com/findus

Fluke ii905 and ii500 **Leak Detection Industrial Imager**







A fast, simple way to detect compressed air, steam, gas and vacuum leaks.

The Fluke ii905 & ii500 Acoustic Imagers provides best-in-class acoustic leak detection technology - LeakQ™ which empowers maintenance teams to efficiently detect, locate, and assess gas and vacuum leaks; even in noisy environments

- 17.78 cm (7 in) 1280 × 800 LCD with capacitive touchscreen
- Frequency band of up to 65kHz (for ii905)
- SoundMap™ overlay for visual leak detection • Capture images in JPEG or PNG format with
- user input notes function Capture videos in MP4 format
- LeakQ reporting tool for detailed reports
- Two-year warranty

SoundSight™ Technology

Specifically designed for noisy production facilities, new SoundSight™ technology is simple to learn and easy to implement. The 7" LCD touchscreen overlays a SoundMap™ on a visual image for guick leak location identification. The straightforward, intuitive interface allows technicians to isolate the sound frequency of the leak to filter out loud background noise. In a matter of hours, the team can inspect the entire plant during peak operations. For the first time, you can quickly and easily identify the air leak repairs needed to ensure efficient operations and reduce utility bills. Images can be saved and exported for reporting purposes. Never leave air leaks unattended again.

With minimal training, the ii500 enables you to:

- Quickly and easily locate leaks
- Optimize air compressors—delay the capital expense of installing additional
- Ensure proper air pressure to pneumatic equipment
- Lower energy and gas costs
- Reduce leak detection time
- Improve reliability of the production line
- Make leak detection part of the typical maintenance routine
- Train the team in a matter of minutes
- Validate repairs on the spot

Key Features	ii500	ii905
LeakQ™	Scale(1-10)	Leak size scale, leak rate, and leak cost estimation
Detection Range	0.5 to > 50 meters (1.6 to > 164 feet)	0.5 to > 70 meters (1.6 to > 230 feet)
Wi-Fi		•
Field of View	63 ° ± 5 °	63 ° ± 5 °
Frequency	2 to 52 kHz	2 to 65 kHz
Detection Range	Up to 50 meters (164 feet)*	Up to 70 meters (230 feet)*
Visual Camera Resolution	1.2 MP	5.0 MP
Battery Life	6 hours	6 hours
Memory	20 GB	32 GB



virtual tour of the Fluke ii500 and ii915 Acoustic Imagers. interface allows technicians





BP291 4500 mAh capacity Li-ion Battery Battery Charger

Recommended Accessories

FLK-TIX5xx-NECK Neck Strap

PLLK CXT1000

Hard Carry Case





Learn more



https://fluke.co/iiseries

Included Accessories

Acoustic Imager; Power supply*; Lithium-ion smart battery pack; USB-C cable; Rugged hard carrying case; Array sensor cover; Adjustable hand strap, and adjustable neck strap.

* only ii500 includes a battery charging

Industrial Imaging

Ordering Information

FLK-II905 **Acoustic Imager** FLK-II500 **Acoustic Imager**



Fluke ii915 Acoustic Imager







Fluke ii915

A fast, easy way to detect, locate and analyze partial discharge in one tool.

The ii915 is the all-in-one tool maintenance teams have been waiting for when it comes to leak and partial discharge (PD) issues. Quickly scan the environment and get all the pictures/videos you need with simple one-button capture. No additional tools, equipment or cumbersome cables required. The ii915 Acoustic Imager's groundbreaking technology makes it a cost-efficient, safe, effective, and comfortable tool for teams who inspect and maintain power distribution and industrial high voltage equipment.

- 17.78 cm (7 in) 1280 × 800 LCD with capacitive touchscreen
- Detection range of 0.5 m to 120 m
- Frequency band of 2 kHz to 100 kHz
- SoundMap™ overlay for visual PD detection
- Captures videos in MP4 format
- Wireless data transfer
- Two-year warranty

SoundSight™ Technology for partial discharge detection

Partial Discharge is a very serious issue that you need to be able to monitor quickly and easily. Whether you are inspecting insulators, transformers, switch gears or high voltage powerlines you need to be sure that you spot a problem quickly and early. Partial discharge that goes unchecked can cause blackouts, fires, explosions, or death from arc flashes. In addition to the danger that partial discharge poses to human lives and the environment, there is a significant monetary risk of downtime. Having equipment go down can cost millions of dollars per hour of downtime.

The Fluke ii915 Acoustic Imager is the perfect tool for teams that are constantly inspecting and maintaining power distribution and industrial high voltage equipment. The ii915 provides a safe quick and easy way to detect and locate partial discharge in order to maintain high voltage equipment and prevent catastrophic events. With SoundSight™ technology the ii915 translates the sounds that it hears into a visual representation so that you can quickly locate problem areas. The higher frequency capability of the ii915 allows for earlier detection to facilitate early maintenance planning.







Key Features	ii915
Sensor	
Frequency Band	2 kHz to 100 kHz
Nominal Frame Rate	25 fps
Detection Range	0.5 to 120 m (1.64 to 393.7 ft)
Built-in Digital Camera (visible lig	ht)
Field of View	63° ±5°
Focus	Fixed lens
Display	
Size	22.86 cm (7 in) LCD with backlight, under-sunlight readable
Resolution	1280 × 800 (1,024000 pixels)
Touchscreen	Capacitive
Acoustic Image	Yes, SoundMap™ image
Acoustic Measurements	
Measurement Range	12.1 dB SPL to 114.6 dB SPL ±1 dB SPL 2 kHz 4.4 dB SPL to 101.2 dB SPL ±2 dB SPL 19 kHz 12.8 dB SPL to 119.2 dB SPL ±1 dB SPL 35 kHz 19.8 dB SPL to 116.1 dB SPL ±3 dB SPL 52 kHz 41.4 dB SPL to 129.0 dB SPL ±1 dB SPL 80 kHz 54.4 dB SPL to 135.5 dB SPL ±1 dB SPL 100 kHz
Auto Max/Min dB Gain	Auto or manual, user selectable
Frequency Band Selection	User selectable through user-made pre-sets or manual entry
General Specifications	
Battery Life	6 hours/battery (product includes spare battery)
Main Unit Rating	IP40 protection against particles 1 mm or greater
Weight	2 kg (4.4 lbs)
General Safety	IEC 61010-1

Learn more



https://fluke.co/iiseries

Included Accessories

Acoustic Imager; Power supply; Lithium-ion smart battery pack; USB-C cable; Rugged hard carrying case; Array sensor cover; Adjustable hand strap, and adjustable neck strap.

Ordering Information

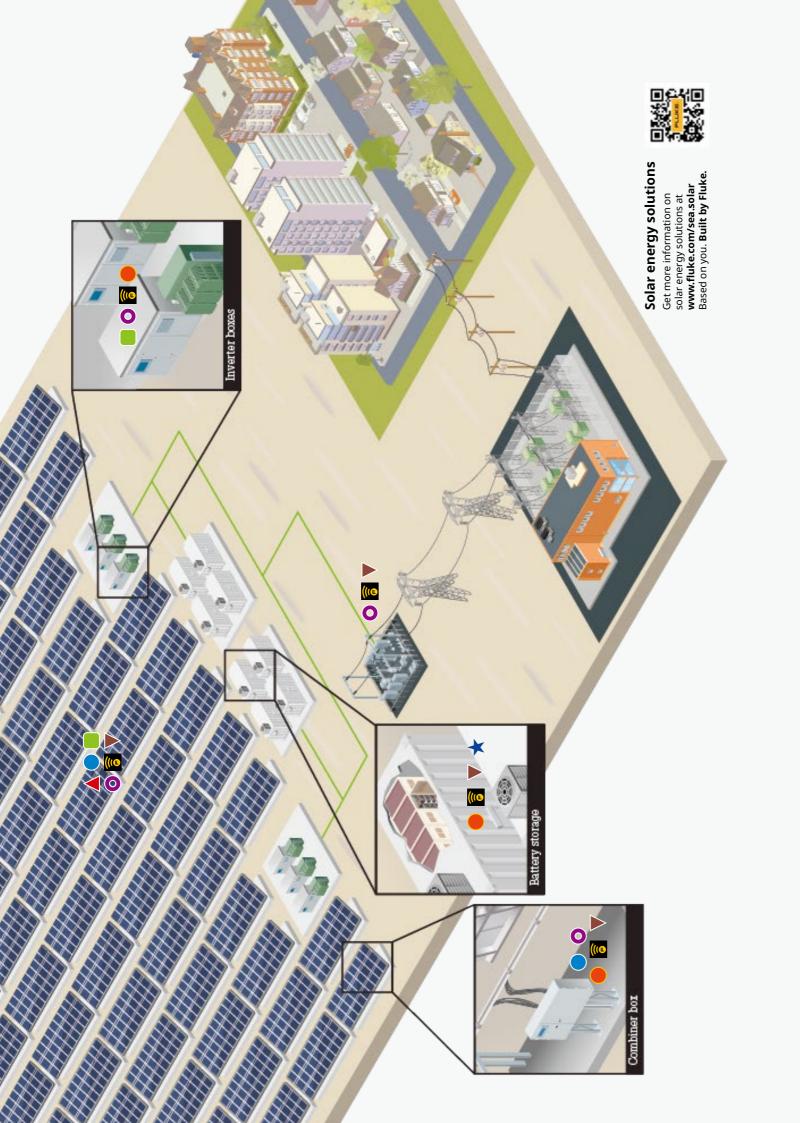
FLK-II915 Acoustic Imager

Contact your local distributor for price and availability. fluke.com/findus

Renewable Energy

The solar industry is accelerating with an estimated market value of nearly \$370 billion by 2030. With market growth comes improved solar technology and a more affordable transition to solar. Solar technicians and managers need to be able to install and service equipment quickly, safely and efficiently.





Solar Technician/ Installer

Focus:

- Mechanical and electrical designConduct commissioningTroubleshooting

- Irradiance meter/PV tester Job needs:
 - Digital multimeter Clamp meter
- Insulation and power quality Temperature/Thermal
- ▼ Earth ground

Insulated hand tools

PV Designer/ Electrician

Focus:

- Conduct commissioningPreventative maintenanceTroubleshooting

Job needs:

- Irradiance meter/PV tester Digital multimeter
- Clamp meter
- Insulation and power quality Temperature/Thermal
- Earth ground

Insulated hand tools

Solar Advisor

Focus:

- Mechanical and electrical designTroubleshooting

Job needs:

- Irradiance meter/PV tester
 - Digital multimeter Clamp meter
- O Temperature/Thermal

Operations and Maintenance Manager

Focus:

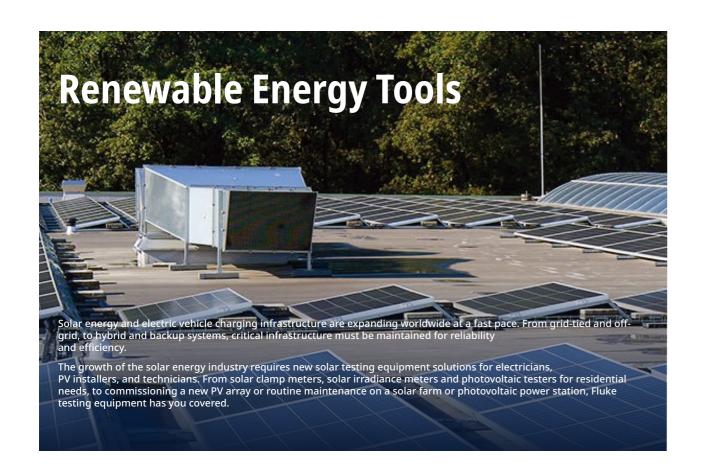
- Lead preventative maintenanceTroubleshootingMonitoring
- Irradiance meter/PV tester Digital multimeter

Job needs:

- O Temperature/Thermal Clamp meter
- Insulation and power quality
 - * Battery analyzer
- Insulated hand tools

Solar energy solutions

Clean Tech	ech	Electri	cal Measur	Electrical Measurement Tools	Elect	Electrical Measurement Tools	nent Tools	Tempe	Temperature	Battery Analyzer	Earth Ground	pu	Software	/are	Accessories	ories
ultifunction PV tester	Irradiance meter	Multifunction Irradiance Digital Clamp PV tester meter multimeter meter	Clamp meter	FC wireless Insulation Insulation multimeter kit tester	Insulation tester		Power quality analyzer	Thermal _{Te} imager	Temperature	Battery analyzer	Earth ground	Stakeless clamp	Fluke Connect™	TruTest™	Insulated hand tools	1 Test leads
•	•							0	0	*			(((@	(((@		
A	E SH	10 清		OF C	* O	II i				A MO						0
SMFT-1000	IRR2-BT	87V MAX	393 FC	v3003 FC Kit	1587 FC	1555 FC	1777	Ti480	64 MAX	BT521	1625-2	1630-2	Fluke Connect™	TruTest™	Insulated hand	PVLEAD1





Irradiance and Temperature

Fluke Irradiance Meters have been designed from the ground up to simplify the installation, commissioning, and troubleshooting of photovoltaic arrays, measuring irradiance, temperature, inclination and direction of the solar array in a single handheld tool

Whether working on a roof-mounted system or on a large field installation, Fluke Irradiance Meters are the single-handed solution that every solar installer and technician needs in their tool bag.

See pages 72



Multifunction Tests and I-V Curve Tracing

Test that PV systems are performing to their optimal power output as well as operating safely. Designed for PV professionals that provide installation, commissioning and maintenance services, you can rely on Fluke to provide a complete PV testing solution that conforms to IEC 62446-1 standards.

Fluke's multifunction PV tester includes a full sequence of safety and performance tests quickly and accurately to save you time and money with features like auto testing, instant on-screen I-V curve results, and a unique "Keep the Leads" system which allows for multiple tests through a one-time setup of test leads.

See page 73





Solar Data Management and Reporting Software

Whether you are analyzing panel efficiency through I-V curves, or safety testing the system through the Category 1 test regime in conformance to IEC 62446-1, proper data management is critical for producing easy-to-understand reports for clients.

TruTest™ enables solar testing, asset management, data storage and reporting on a single software platform that covers certification and documentation needs.

See page 74



Electric Vehicle Charging Station Operation

Test the safety and performance of type 1 or connector for Tesla™ station, level 1 or level 2 electric vehicle AC charging stations (EVSEs) with Fluke's EVSE testing solutions. Verify an EVSE is working properly after install, during periodic maintenance or troubleshooting.

You can perform a variety of tests including ground fault checks, insulation of wires, measuring voltage and duty cycle to see max current available for charging all with one adapter. The adapter acts as an electric vehicle when connected to an EVSE for easy performance and maintenance testing.

See page 75



FLUKE.

Fluke IRR1-SOL Solar Irradiance Meter

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Fluke IRR1-SOL



One easy-to-use tool for testing solar panels and PV systems.

The Fluke IRR1-SOL Irradiance Meter has been designed from the ground up to simplify the installation, commissioning and troubleshooting of photovoltaic arrays and solar panels. Whether surveying, installing, executing maintenance, or checking the performance of solar panels or photovoltaic systems there are four critical measurements that technicians require, and that the Fluke IRR1-SOL Irradiance Meter delivers:

- Solar irradiance: Make instantaneous measurements to determine the watt per square meter solar irradiation, required by the IEC 62446-1 standard
- Ambient and PV module temperature: Measure temperature by either placing the meter directly on the panel or by connecting the external probe
- Array orientation: Find cardinal direction with the built-in compass
 Tilt angles: Verify inclination of a roof or panel with
- Tilt angles: Verify inclination of a roof or panel with the tilt function

Built to go where you go

With a rugged, compact design, a protective carrying case, and an easy-to-read, high contrast LCD screen to read measurements in direct sunlight, the IRR1-SOL can go where you go. The simple user interface, instantaneous solar irradiation measurements, and built-in temperature sensor make it easy to meet the IEC 62446-1 requirements for testing, documenting, and maintaining photovoltaic systems.

Key Features	IRR1-SOL
Irradiance	
Measuring Range	50 to 1400 W/m2
Resolution	1 W/m2
Measuring Accuracy	±(5% + 5 Digit)
Temperature Measureme	nt
Measuring Range (° C)	-30° C to 100° C (-22 °F to 212 °F)
Resolution	0.1 °C (0.2 °F / 1 °F @>100 °F)
Measuring Accuracy	±1° C (±2 °F) @ -10° C to 75° C (14 °F to 167 °F) ±2° C (±4 °F) @ -30° C to -10° C (-22 °F to 14 °F) ±2° C (±4 °F) @ 75° C to 100° C (167 °F to 212 °F)
Note: Temperature measu	rement response time: ~ 30 seconds
Inclination Angle	
Measuring Range	-90° to +90°
Resolution	0.1°
Measuring Accuracy	±1.5° @ -50° to +50°, ±2.5° @ -85° to -50° and +50° to +85°, ±3.5° @ -90° to -85° and +85° to +90°
Compass	
Measuring Range	0° to 360°
Resolution	1°
Measuring Accuracy	±7°
Note: a) Compass Measurementaken outside that range ab) Result is referred to ma	

-,	5
Protection	
Ingress Protection	IEC 60529: IP40
General Specifications	
Battery Life (typical)	50 hour (≤9000 readings)
Weight	231 g (8.14 oz)

The IRR1-SOL features:

- A high precision monocrystalline solar sensor for irradiance measurements up to 1400 W/m2
- Two options for temperature measurement – a built-in sensor and an external suction mount probe
- An integrated compass
- An inclination sensor for the tilt function

Learn more







fluke.com/sea.solar

Work in the Solar Industry?

Visit the link to learn how Fluke tools can help with the future of power.



Included Accessories

FLK-80PR-IRR External Temperature Probe with Suction Cup, C250 Carrying Case with Shoulder Strap, Four AA Alkaline Batteries and User Manual.

Ordering Information

FLK-IRR1-SOL

Solar Irradiance Meter

Fluke SMFT-1000 Multifunction PV Tester and Performance Analyzer, I-V Curve Tracer Kit



All-in-one test solution to verify PV system performance and safety, expedite client reporting

Test that PV systems are performing to their optimal power output as well as operating safely with the Fluke SMFT-1000 multifunction tester with I-V curve tracing. Designed for PV professionals that provide installation, commissioning and maintenance services to systems that operate at 1000 V DC or under, the SMFT-1000 provides a complete PV testing solution that conforms to IEC 62446-1 standards. Through Fluke's TruTest™ Software, measurement data from solar site installation and commissioning testing can be easily imported, organized and analyzed for effortless reporting without having to bring a laptop on-site.

Critical testing features for periodic inspection of PV systems

Full sequence safety testing – IEC 62446-1 Category 1:

- Protective resistance earth (RLO)
- Voltage on open circuit, including polarity (VOC)
- Short circuit current (ISC)

100 V - 1000 V

Polarity test

• Insulation resistance (RINS)

ROI and system performance testing – IEC 62446-1 Category 2:

- I-V Curve tracing and software analysis with TruTest™
- Irradiance, temperature, tilt, cardinal direction

Specifications		SMFT-1000	
Protective conductor resist	ance (RLO)		
Display range	Measuring range	Resolution	Accuracy
0.00 Ω - 19.99 Ω	0.20 Ω - 19.99 Ω	0.01 Ω	± (2 % + 2 Digit)
20.0 Ω- 199.9 Ω	20.0 Ω - 199.9 Ω	0.1 Ω	± (2 % + 2 Digit)
200 Ω - 2000 Ω	200 Ω - 2000 Ω	1 Ω	± (5 % + 2 Digit)
Test current	≥ 200 mA (≤ 2Ω + Rcomp)		
Test voltage	4 V DC 10 V DC		
Polarity reversing	Yes		
Test lead zero (Rcomp)	Up to 3 Ω		
PV module/PV string, open	-circuit voltage (Voc)		
0.0 V - 99.9 V	5.0 V - 99.9 V	0.1 V	± (0.5 % + 2 Digit)

General Specifications	
Weight	1.4 kg (3.09 lb)
Battery	6 AA IEC LR6
Operating temperature	0 °C to 50 °C (32 °F to 122 °F)
Storage temperature	-30 °C to 60 °C (-22 °F to 140 °F) batteries removed
Operating altitude	up to 2000 m
Storage altitude	up to 2000 m

Valid in selected countries. Check with your local Fluke representative on availability.

100 V - 1000 V

Included with SMFT-1000:

- Fluke SMFT-1000-BP Professional Tool Backpack
- SMFT-1000 Multifunction PV Analyzer
- Carry Strap
- Fuse Pack
- Adapter Cable IRDA Optical-to-USB
- Zero Adapter
- IRR2-BT Wireless Solar Irradiance Meter Pro
- 80PR-IRR External Temperature Probe
- Mounting Bracket for solar panel
- Carry Case
- i100 AC/DC Current Clamp 100 A • TPAK Magnet Set
- TP1000 Test Probe with Remote Test Button
- TL1000 Test Lead Set
- TL1000-MC4 Test Lead SetTL1000/30M Test Lead
- TL1000/30M Test Lead on Reel
- Coupler set
- (6) AA Batteries

Learn more



Recommended tools for use with the SMFT-1000

- TruTest™ Data Management and Reporting Software
- 393 FC CAT III 1500 V Solar Clamp
 Meter
- 87V MAX True-rms Digital Multimeter
- 1587 FC Insulation Multimeter
- Ti480 PRO Infrared Camera
- 1625-2 GEO Earth Ground Tester500 Series Battery Analyzers
- Pomona PVLEAD3 MC4 Solar Clamp Test Lead Set

Ordering Information

SMFT-1000*

Multifunction PV Tester and Performance Analyzer, I-V Curve Tracer

* Also available as a kit with Advanced TruTest™ Software and MC4 Solar Clamp Test Lead Set

Contact your local distributor for price and availability. fluke.com/findus



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Renewable Energy

Fluke TruTest[™] Solar Data Management and Reporting Software



The easy-to-use data management solution

Fluke TruTest™ Software is designed to eliminate the hassle associated with traditional solar system data management and reporting. Whether you are analyzing panel efficiency through I-V curves, or safety testing the system through the Category 1 test regime in conformance to IEC 62446-1, proper data management is critical for producing easy-to-understand reports for clients. Compatible with the Fluke SMFT-1000 Multifunction PV Tester and Performance Analyzer, TruTest™ Software allows you to quickly and easily import measurement results directly from your solar multifunction tester to computer, organize and analyze the data, compare individual asset data against previous measurements imported and provide a comprehensive and visual

- With a streamlined user interface and intuitive workflow, measurement data can be easily formatted into printable test certificates and reports complete with your company logo and electronic signature.
- Easily manage measurement data
- Quickly create test certificates and reports
- Free updates for 5 years after installation
- Easy data collection and database transfers
- Enables manual data entry
- Intuitive user interface
- Fast and simple operations

System Requirements

,	
Туре	Requirement
Operating system	Microfoft Windows 10, 64-bit and 32-bit (recommended) Microfoft Windows 8/8.1, 64-bit and 32-bit Microfoft Windows 7 with Service Pack 1, 64-bit and 32-bit
System memory	Minimum 4 GB RAM (64-bir) or 2 GB RAM (32-bit)
Hard disk space	Minimum 2 GB available hard disk space
Display resolution	Minimum screen resolution 1366 x 768
Communication interfaces	USB

Streamlined data management

Manage test results, client and site data with ease, and create reports quickly using the intuitive, modern user interface and custom-report builder.

Single solar platform

TruTest™ enables solar testing, asset management, data storage and reporting on a single software platform that covers certification and documentation needs.

Dashboard interface

Valid in selected countries.

On-screen intuitive dashboard interface allows the user to see the status of all their clients instantly and navigate to

Check with your local Fluke representative on availability.

further levels of detail if desired.

Comprehensive reporting

Fluke TruTest™ Software simplifies the reporting process so you can produce easy-to understand test certificates and reports as quickly as possible, saving you time and money. Easily visualize the status of assets with clear pass/ fail results. Tests in accordance with standards such as IEC 62446-1 and EU directive 2009/104/EC (BetrSichV) are available at the touch of a button, and a pre-configured template ensures that no matter your testing standards TruTest™ Software has you covered.

Free demonstration software

Demo software and software

packages

is available at www.fluke.com/ trutestsoftware. After downloading start the installation by double clicking on the software file. The setup program will guide you through the installation procedure. Please follow the installation instructions displayed on the screen.

After purchasing TruTest™ Lite or TruTest™ Advanced, you will be provided with a code that will give you full access to the features purchased.



Learn more





Ordering Information

TruTest Lite FLK-TRUTEST-Software Package LITE Software license code

FLK-TRUTEST-ADV Software

Software Package with enhanced functionality license code

TruTest Advanced

FLK-TRUTEST-CD TruTest Software

download from website). License code sold separately

disc (if unable to

Contact your local distributor for price and availability. fluke.com/findus

Fluke FEV300 Adapter Kit for Electric Vehicle **Charging Stations**



Fluke FFV300

Test the functionality and safety of electrical vehicle charging stations, easily and reliably

Test the safety and performance of type 1 or connector for Tesla™ station, level 1 or level 2 electric vehicle ac charging stations (EVSEs) with the Fluke FEV300. This test adapter simulates the presence of an electrical vehicle, allowing the user to conduct tests in combination with appropriate test instruments such as a digital multimeter or oscilloscope. Use the FEV300 to verify an EVSE is working properly after install and during periodic maintenance or troubleshoot an EVSE if it is not delivering the appropriate charge.

Work in the eMobility eMobility and EVSE solutions industry?

Included in the FEV300 Electrical

• Fluke FEV300/BASIC Test Adapter

Vehicle Charging Station Test

• Fluke FEV-COM/TY1 Type 1

Connector & Cable

Soft Carrying Case

Adapter Kit

Visit us to learn how Fluke tools can help with eMobility and EVSE solutions.

fluke.com\sea.emobility



Use the FEV300 to:

- Check that an electric vehicle charging station including protective earth is correctly wired and functioning properly with the PE pre-test feature
- Perform GFCI troubleshooting of an EVSE and verify if it is operating within safety
- Test different charging states of an EVSE with CP state simulation
- Verify charging voltage and maximum available current using a digital multimeter

Available Measurements:

- PE grounding system pre-test (verifies that there is no presence of dangerous voltage at the ground terminal)
- Phase indicator (presence of voltage)
- CP State simulation (A, B, C, D) for Control Pilot
- CP and PE Error simulation (Control Pilot CP signal short-circuited to PE) (interruption
- GFCI ground fault circuit interrupter test
- Measurements on live conductors (L1, L2/N) and on PE ground conductor

- PE Pre-Test for grounding protection against dangerous voltage
- CP Control Pilot for vehicle simulation
- PE and CP Error notification
- GFCI testing
- Compatibility with the Fluke portfolio to measure voltage, waveform, loop impedance and resistance
- Complies with SAE J1772 standards

Simplicity & Convenience

Perform a variety of tests including ground fault checks, insulation of wires, measuring voltage and duty cycle to see max current available for charging all in one adapter. The adapter safely integrates with the Fluke portfolio of test and measurement tools.

No need to bring an electric vehicle onsite for EVSE testing: the adapter acts as an electric vehicle when connected to an EVSE for easy performance and maintenance

The FEV300 is also available in several Fluke eMobility kits:



FEV300/TY1 KIT



FEV300/TY1 & TSL

The FEV300 is compatible with the Fluke portfolio of test and measurement tools.

Recommended tools:

- 87V Industrial Multimeter
- 376 FC True-RMS Clamp Meter with
- 1587 FC Insulation Multimeter
- 1738 Three-Phase Power Quality
- 1630-2 FC Earth Ground Clamp • BT521 Advanced Battery Analyzer
- 1664 FC Installation Multifunction Testers
- 125B Industrial ScopeMeter® Handheld Oscilloscope

Ordering Information

FLK-FEV300

Adapter Kit for Electric Vehicle **Charging Stations**

Renewable Energy

Contact your local distributor for price and availability. fluke.com/findus



Tesla is a registered trademark of Tesla, Inc.



Indoor Air Quality Meter Selection Guide











Models	Fluke 971	Fluke 972	Fluke 922	Fluke 985	Fluke CO-220
Record storage	99	99	99	10 000	
Downloadable data	No	No	No	USB or Ethernet	No
Battery type	(4) AAA	(2) AAA	(4) AA	Rechargeable Li-Ion 7.4 V 2600 mAh	(1) 9V
Warranty	2 years	1 years	2 years	1 year	1 year
Indoor air diagnostic application	ns				
Air velocity			•		
Air pressure			•		
Air flow (volume)			•		
Carbon dioxide					
Carbon monoxide					•
Temperature	•	•	•		
Humidity	•	•	•		
Dew point/wet bulb	•	•			
Particle concentration counting				•	
Air pressure/air velocity/air flow	1				
Air pressure range			±4000 Pascals/±16 in H ₂ O/±400 mm H ₂ O/±40 m bar/±0.6 psi		
Air pressure accuracy			±1% + 1 Pascal/±1% + 0.01 in H ₂ O/±1% + 0.1 mm H ₂ O/±1% + 0.01 m bar/±1% + 0.001 psi		
Air velocity range			250 to 16 000 fpm/1 to 80 m/s		
Air velocity accuracy			±2.5% of reading at 2000 fpm		
Air flow (volume) range			(10.00 m/s) 0 to 99,999 cfm		
Air flow (volume) range			Accuracy is a function of velocity		
Air flow (volume) accuracy			and duct size		
Temperature relative humidity					
Femperature range	-20° C to 60° C (-4°F to 140°F)	-30.0 °C to 70.0 °C (internal sensor)-40.0 °C to 100 °C (external sensor)	0° C to 50° C (32°F to 122°F)		
Femperature accuracy	0° C to 45° C (±0.5° C); -20° C to 0° C and 45° C to 60° C (±1.0° C)	Internal sensor: ±0.4 °C (-30 °C to 70 °C)External sensor: ±0.4 °C (-40 °C to 90 °C);±0.5 °C (90 °C to 100 °C	0° C to 50° C (±0.01° C)		
Relative humidity range	5% to 95% RH	0% to 99.9% RH	0% to 90% RH		
Relative humidity accuracy	10% to 90% RH @ 23° C (±2.5% RH); <10% or > 90% RH @ 23° C (±5.0% RH)	±3% RH (20% RH to 80% RH @ 25 °C);±5% RH (< 20% RH, > 80% RH @ 25 °C)	0% to 90% RH @ 23° C (±2.0% RH)		
Carbon dioxide/carbon monoxid	de				
Carbon dioxide range					
Carbon dioxide accuracy					
Carbon monoxide range					0 to 1000 ppm
Carbon monoxide accuracy					5% or ±2 PPM
Particle counting					
Flow rate				2.83 L/min (0.1 cfm)	
Particle size range				0.3 μm - 10.0 μm (6 channel)	
Count modes				Raw counts, #/m3, #/ft3, #/liter in Cumulative or Differential mode	
Counting efficiency				50% @ 0.3 μm; 100% for particles > 0.45 μm (per ISO 21501)	
				10% @ 4000000 particles	



FLUKE.

Fluke 922 Airflow Meter/ Micromanometer



Fluke 922

The Fluke 922 helps you analyze airflow easily

The Fluke 922 makes airflow measurements easy by combining three functions—differential pressure, airflow, and velocity—into a single, rugged meter. The 922 was designed and built for how (and where) you do your job. Its performance, ruggedness and ease of use set the Fluke 922 apart from the competition. The bright white display and ruggedized holster and wrist strap let you take the Fluke 922 into less than ideal environments. Color-coded hoses help you keep track of where your readings are coming from. The simple, intuitive interface means you can measure pressure, velocity, or airflow at the push of a button.

- Powerful meter provides differential and static pressure, air velocity and flow readings
- Convenient color-coded hoses help proper interpretation of pressure readings
- Easy to use without sacrificing performance
- Bright, backlit display for clear viewing
- User-defined duct shape and size for maximum airflow accuracy
- Resolution down to 0.001 in H₂O
- 99 point data storage capacity
- Min/Max/Average/Hold functions for easy data analysis
- Auto power off saves battery life
- Two-year warranty

Use the Fluke 922 Micromanometer to:

- Measure pressure drops across key HVAC equipment to drive peak performance and extend equipment life
- Match ventilation to occupant loads
- Monitor indoor vs. outdoor pressure relationships and manage the building envelope
- Promote indoor comfort and quality
- Perform duct traversals for accurate airflow readings

Specifications	922
Operating Temperature	0°C to 50°C (32°F to 122°F)
Storage Temperature	-40°C to 60°C (-40°F to 140°F)
Operating Relative Humidity	Non condensing (<10°C (50° F)) 90% RH (10° C to 30° C (50° F to 86° F)) 75% RH (30° C to 40° C (86° F to 104° F)) 45% RH (40° C to 50° C (104° F to 122° F)) without Condensation
Ingress Protection (IEC 60529)	IP40
Operating Altitude	2000 m (6,561 ft)
Storage Altitude	12000 m (39,370 ft)
EMC	Meets requirements for IEC 61326-1
Vibration	MIL-PREF-28800F, Class 3
Max Pressure at Each Port	10 psi
Data storage	99 readings
Weight	0.64 kg (1.41 lb)
Battery	Four AA batteries
Battery Life	375 hours without backlight, 80 hours with backlight

	Range	Accuracy
Air pressure	$\pm 4000 \mathrm{Pa}$ $\pm 16 \mathrm{inH_2O}$ $\pm 400 \mathrm{mmH_2O}$ $\pm 40 \mathrm{mbar}$ $\pm 0.6 \mathrm{psi}$	±1% + 1 Pa ±1% + 0.01 inH ₂ O ±1% + 0.1 mmH ₂ O ±1% + 0.01 mbar ±1% + 0.001 psi
Air velocity	1 to 80 m/s (250 fpm to 16000 fpm)	10.00 m/s (±2.5% of reading at 2000 fpm)
Air flow (volume)	0 to 99,999 cfm 0 to 99,999 m3/hr 0 to 99,999 l/s	Accuracy is a function of velocity and duct size
Temperature	0° C to 50° C (32°F to 122°F)	0.1° C (0.2° F)





Included Accessories

Fluke 922: Two Rubber Hoses, Wrist Strap, four AA Batteries 1.5 V Alkaline, User Manual and Soft Carrying Case. Fluke 922 Kit: Fluke 922 Airflow Meter, 30 cm (12 in) Pitot Tube, ToolPak, Two Rubber Hoses, Wrist Strap, four AA Batteries, User Manual and Hard Carrying Case.

Ordering Information

FLUKE-922 Airflow Meter FLUKE-922/KIT Airflow Meter Kit

Contact your local distributor for price and availability. fluke.com/findus

Fluke 985 Airborne Particle Counter





Troubleshooting indoor air quality made

The Fluke 985 Particle Counter is ideal for troubleshooting and monitoring indoor air quality issues and verifying HVAC filter performance in critical locations. With its easy to read and fully configurable channel display, lightweight yet rugged form, and highly accurate measurements, the Fluke 985 is the perfect tool for the maintenance, HVAC, and IAQ professional.

- Six channels and particle size range of 0.3 µm to 10.0 µm: Assures accurate measurements even for critical locations requiring ISO Class 5 – 9 certification
- Ultra-lightweight and ergonomic design: Promises easy single-hand operation in tight or awkward spaces with less operator fatigue
- Long battery life: Ten hours of standard-use battery life to last a full work day
- Large 8.9 cm (3.5 inch) QVGC color display: Easy navigation and viewing with the intuitive icons and large font options
- 10000 record storage: Quick access to historical data
- On-screen data presentation: Data can be viewed in a traditional tabular or trend graph view at the user's
- Personalized setting and configurations: Customizable settings for the display, sample methods, and alarm settings for sample count
- · Data export options: Download data to a PC using a USB memory stick, USB cable or Ethernet connection. No special software is required to download or view
- Optional password control: Confirms security when required
- USB/Ethernet charge cradle: Assures device is always ready to go when needed
- One-year warranty

Specialty Models

CO-220 Carbon **Monoxide Meter**

- Measures CO levels in industrial environments and commercial of residential buildings where accumulation of combustion gas is possible.
- Stand-alone CO meter that does no
- require a digital multimeter • Large backlit LCD displays CO levels
- from 0 ppm to 999ppm
- Beeper triggers with increasing frequency as CO levels rise
- MAX hold function stores and displays the maximum CO level
- Automatic sensor zeroing and self-test upon

CO-205 Aspirator Kit

- The CO-205 flue gas sampling accessory kit contains all the components necessary to provide a clean sample for the Fluke family of gas measuring devices
- The CO-205 Accessory Kit includes:
- Stainless steel sampling tube
- Industrial-grade hand operated aspirator to draw flue sample
- Easily replaceable particulate filter Specially designed nose cap
- for connection to the Fluke CO-220

Specifications	985
Channels	0.3 μm, 0.5 μm, 1.0 μm, 2.0 μm, 5.0 μm, 10.0 μm
Flow rate	2.83 L/min (0.1 cfm)
Light source	775 nm to 795 nm, 90mW class 3B laser
Count modes	Raw counts, #/m3, #/ft3, #/liter in Cumulative or Differential mode
Counting efficiency	50% @ 0.3 μm; 100% for particles > 0.45 μm (per ISO 21501)
Zero count	1 count/5 minute (JIS B9921)
Concentration limits	10% at 4000 000 particles per ft3 (per ISO 21501)
Data storage	10 000 records (rotating buffer)
Alarms	Counts, low battery, sensor fail
Delay time	0 to 24 hours
Sample inlet	Isokinetic probe
Security	Administrator password control (optional)
Communication mode	USB or Ethernet
Calibration	PSL particles in air (NIST traceable)
Size (HxWxD)	27.2 × 9.9 × 5.3 cm (10.7 x 3.9 x 2.1 in)
Weight	0.68 kg (1.5 lb)
Power adapter	100 V AC to 240 V AC, 12 V DC, 2.5 A
Rechargeable battery	Li-ion 7.4 V 2600 mAh; 10 hours typical use (5 hours continuous sampling) / 3.5 hours)
Operating environment	10° C to 40° C (50°F to 104°F) / < 95% RH, non-condensing
Storage environment	-10° C to 50° C (14°F to 122°F) /Up to 98% RH, non-condensing

Included Accessories

Fluke 985: Cradle for charging and **USB** and Ethernet Communications, ENET Cat5e 7-foot Cable, USB A to Mini-B 6-foot Cable, 12V DC Power Supply, Zero Count Inlet-Filter, Filter Adapter, Sample Inlet Protective Cap, Hard Case, Getting Started Manual and User Manual (CD)

Fluke CO-220: C50 Soft Carrying Case and Battery.

Ordering Information

FLUKE-985 **Particle Counter** FLUKE-CO-220 Carbon Monoxide Meter

FLUKE-CO-205 Aspirator Kit

Contact your local distributor for price and availability. fluke.com/findus



Fluke 971 Temperature Humidity Meter



Temperature and humidity are two important factors in maintaining optimal comfort levels and good indoor air quality. Quickly and conveniently take accurate humidity and temperature readings with the Fluke 971.

It is invaluable for facility maintenance and utility technicians, HVAC-service contractors, and specialists who assess indoor air quality (IAQ). Lightweight and easy to hold, it's the perfect tool for monitoring problem areas. With a rugged holster and protected sensor, the Fluke 971 is built to perform and made to last.

- New and improved digital sensor for faster response
- Backlit dual display of humidity and temperature
- Measures dew point and wet bulb temperatures
- 99 record storage capacity
- Ergonomic design with belt clip and protective holster
- Compact and lightweight at 188 g (6.63 oz)
- Temperature range from -20° C to 60° C (-4° F to 140° F)
- Relative humidity from 5% to 95%
- Min/Max/Avg/Hold functions
- Low battery indicator
- One-year warranty



Specifications	971
Temperature range	-20° C to 60° C (-4° F to 140° F)
Temperature accuracy 0° C to 45° C (32°F to 113°F) -20°C to 0° C and 45° C to 60° C (-4°F to 32°F and 113°F to 140°F)	±0.5° C (±1.0°F) ±1.0° C (±2.0°F)
Resolution	0.1° C (0.1° F)
Response time (temperature)	500 ms
Temperature sensor type	NTC
Relative humidity range	5% to 95% R.H.
Relative humidity accuracy 10% to 90% R.H. @ 23° C (73.4°F) <10%, >90% R.H. @ 23° C (73.4°F)	±2.5% R.H. ±5.0% R.H.
Humidity sensor	Electronic capacitance polymer film sensor
Data storage	99 points
Response time (humidity)	For 90% of total range - 60 sec with 1 m/s air movement
General	

Response time (numidity)	For 90% of total range - 60 sec with 1 m/s air movement
General	
Operating temperature	Temperature: -20° C to 60° C (-4° F to 140° F) Humidity: 0° C to 60° C (32° F to 140° F)
Storage temperature	-20° C to 55° C (-4° F to 131° F)
Battery life	4 AAA alkaline, 200 hours
Safety	Complies with EN61326-1
Size (HxWxD)	194 mm × 60 mm × 34 mm
Weight	0.18 kg (6.63 oz)

Fluke RLD2 UV Refrigerant Leak Detector Flashlight

- Leak detection made easy. The compact, easy-to-use, RLD2 UV flashlight uncovers refrigerant leaks instantly. Use the UV light to find the leakage area, then, use the laser pointer to pinpoint the exact leak location. With 100 000 hours of life, and four operating modes, this versatile leak detector is a must have for HVAC technicians
- Six UV LEDs (395 nm wavelength) detect leak detection dyes
- Laser pointer clearly locates center of the UV field for accuracy
- Three LED flashlight with 100 000 hour LED
- Four operating modes: flashlight, UV light, laser light, UV/laser light combination
- Convenient detachable key chain carabiner and AAA battery included

Recommended Accessories





Included Accessories

Fluke 971: Four AAA Alkaline Batteries, Operation Manual

Fluke RLD2: Chain Carabiner and Batteries.

Ordering Information

FLUKE-971

Temperature **Humidity Meter**

FLUKE-RLD2

Refrigerant Leak

Contact your local distributor for price and availability. fluke.com/findus

Fluke 972B and 972ES Temperature **Humidity Meter**



Measure-and-view, industrial design, necessity for inspection.

Temperature and humidity are two important items for comfort test of indoor air and environment. The Fluke 972 Series Temperature Humidity Meter can quickly and easily collect accurate humidity and temperature data. It features streamlined industrial design and is comfortable to hold. Simplified buttons require no complicated operations. The selected high-precision sensors ensure that reliable data is collected. The Fluke 972 Series is an indispensable environmental monitoring tool for facility maintenance and engineering technicians, HVAC service contractors, R&D and manufacturing engineers, and professionals involved in indoor air quality (IAQ) assessments.



Ordering Information

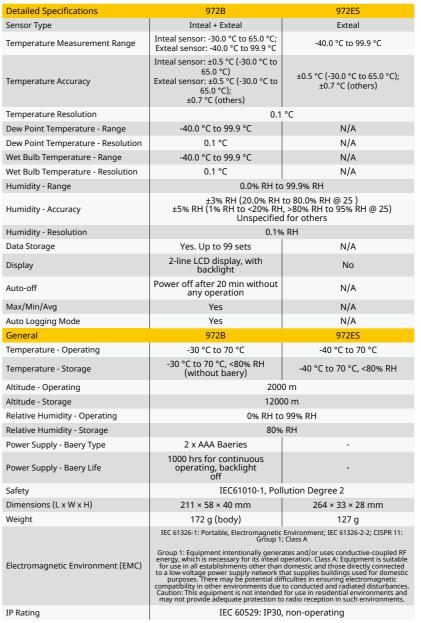
FLUKE-972B The Fluke 972B

Fluke 972ES external sensor Black soft case

FLUKE-972ES

Fluke 972ES external sensor

Contact your local distributor for price and availability. fluke.com/findus





Environmental Testing

Insulation Testers Whether you work on motors, generators, cables, or switch gear, Fluke digital insulation resistance testers deliver advanced performance and noise-free, reliable results. And they are designed to be safe, simple to use and gimmick-free. A perfect solution for insulation testing, troubleshooting, commissioning and preventive maintenance applications.

Insulation Tester Selection Guide

		S. O.	ES	85. IV		
Insulation Test Functions	1503	1507	1577	1587 FC	1550C	1555
Test Voltages	500 V, 1000 V	50 V, 100 V, 250 V, 500 V, 1000 V	500 V, 1000 V	50 V, 100 V, 250 V, 500 V, 1000 V	250 V, 500 V, 1000 V, 2500 V, 5000 V	250 V, 500 V, 1000 V, 2500 V, 5000 V, 10 000 V
Insulation Resistance Test Range	0.1 MΩ - 2 GΩ	Ω0.01 MΩ - 10 GΩ	ΩM 009 - ΩM 1.0	0.01 MΩ - 2 GΩ	200 kΩ - 1 TΩ	
Polarisation Index/Dielectric Absorption Ratio		•		•	•	•
Auto Discharge	•	•	•	•	•	•
Time Ramp test (Breakdown)					•	
Pass/Fail Comparison		•				
Estimated Number of Insulation resistance Tests	1000	1000	1000	1000	1000 @ 5000 V	1000 @ 10 000 V
Voltage >30 V Warning	•	•	•	•	•	•
Memory				•	(99 locations)	(99 locations)
Remote Test Probe	•	•	•	•		
Lo Ohms	•	•				
Display	Digital LCD	Digital LCD	Digital LCD	Digital LCD	LCD / Analog Bar Graph	LCD / Analog Bar Graph
Continuity	(200 mA)	(200 mA)	•	•		
Multimeter Functionality						
AC/DC Volts	•	•	•	•		
Current			•	•		
Resistance	•	•	•	•		
Temperature (contact)				•		
Temperature Compensation				•		
Lo-Pass Filter				•		
Capacitance				•	•	•
Diode Test				•		
Frequency				•		
MIN/MAX				•		
Fluke Connect™ enabled				•	‡	÷
Other						
Hold/Lock	•	•	•	•	•	•
Backlight	•	•	•	•		
Software					_	_
Warranty (in years)	1	-	m	3	æ	æ
Battery	4× AA (NEDA 15A or IEC LR6)	4× AA (NEDA 15A or IEC LR6)	4× AA (NEDA 15A or IEC LR6)	4× AA (NEDA 15A or IEC LR6)	Rechargeable	Rechargeable
+ With Fluke IR FC Connector.						



FLUKE.

Fluke 1587 FC and 1577 Insulation Multimeters





Fluke 1577



Two powerful tools in one.

The Fluke 1587 FC and 1577 Insulation Multimeters combine a digital 1 kV insulation tester with a fullfeatured, true-RMS digital multimeter in a single compact, handheld unit, which provides maximum versatility for both troubleshooting and preventive maintenance.

- Insulation test (1587 FC: 0.01 M Ω to 2 G Ω) (1577: $0.1 \text{ M}\Omega \text{ to } 600 \text{ M}\Omega$)
- Insulation test voltages (1587 FC: 50 V, 100 V, 250 V, 500 V, 1000 V), (1577: 500 V, 1000 V) for many applications
- Live circuit detection prevents insulation test if voltage > 30 V is detected for added user protection
- Auto-discharge of capacitive voltage for added user
- Filter for motor drive measurements (1587 FC only)
- AC/DC voltage, DC millivolts, AC/DC milliamps, resistance (Ω) , and continuity
- Capacitance, diode test, temperature, Min/Max, and frequency (Hz) (1587 FC only)
- Auto power off to save battery power
- Large display with backlight and large digits
- Included accessories: Remote probe, test leads and probes, alligator clips, (Type K thermocouple, 1587 FC only)
- Accepts optional Fluke TPAK magnetic hanging system to free your hands for other work
- Rugged, utility hard case allows you to bring everything you need for the job
- Three-vear warranty

The Fluke 1587 FC Insulation Multimeter adds four

powerful diagnostic functions through the Fluke Connect™ Measurements app:

- PI/DAR timed ratio tests with TrendIt™ graphs identifies moisture and contaminated insulation problems faster • Memory storage through Fluke Connect™ eliminates writing down results, reduces
- errors and saves data for historical tracking over time • Temperature compensation through app for establishing accurate baselines and
- relevant historical comparisons

Specifications	1587 FC	1577
Insulation test voltages 50 V, 100 V, 250 V, 500 V, 1000 V	•	
Insulation test voltages 500 V, 1000 V		•
Insulation resistance	0.01 MΩ to 2.0 GΩ	0.1 MΩ to 600 MΩ
Auto-discharge of capacitive voltage	•	•
Insulation test smoothing reading	•	
Frequency	•	
Capacitance	•	
Diode test	•	
Temperature	•	
Min/Max	•	
Low-pass filter (for work on VSDs)	•	
AC/DC voltage	•	•
DC millivolts	•	•
AC/DC milliamps	•	•
Resistance	0.1 Ω to 50 MΩ	0.1 Ω to 50 MΩ
Continuity	•	•
Remote probe, test leads, alligator clips	•	•
Type K thermocouple	•	
Rugged, utility hard case	•	•
Auto power off	•	•

Fluke Connect (FC) available in selected countries. Contact your local Fluke distributors to find out more.



Recommended Accessories i410 AC/DC Current Clamp Magnetic Meter Hanger TL27 C101 Hardy Case Heavy Duty Test PVLEAD1 PVLEAD3 MC4 to 4 mm Test

Recommended Kits

Lead Set



Test Lead Set

Fluke 1587/i400 Current Clamp FC



Fluke 1587 FC Advanced Electrical Troubleshooting Kit



Fluke 1587 FC/MDT Advanced Motor and Drive Troubleshooting Kit

Inciuded Accessories

Remote Probe, Test Leads, Alligator Clips, K-type Thermocouple (1587 FC only), Hard Case, User Documentation

Ordering Information

FLUKE-1577	Insulation Multimeter
FLUKE-1587FC	Insulation Multimeter with Fluke Connect™
FLUKE-1587/ MDT FC Kit	FC 2-in-1 Adv Motor & Drive Kit w/ 9040, i400
FLUKE-1587/ I400 FC KIT	FC 2-in-1 Insulation Multimeter with i400
1587KIT/ 62MAX+FC	FC 2-in-1 Adv Elec Kit w/62MAX+ i400

Contact your local distributor for price and availability. fluke.com/findus

Fluke 1555 and 1550C Insulation **Resistance Testers**







Powerful troubleshooting and predictive maintenance tools.

The Fluke 1555 and redesigned Fluke 1550C Insulation Resistance Testers offer digital insulation testing up to 10 kV, making them ideal for testing a wide range of high voltage equipment including switchgear, motors, generators and cables.

- Capacitance and leakage current measurement
- Ramp function for breakdown testing
- Warning function alerts the user that line voltage is present and gives a voltage reading up to 600 V AC or DC for increased user safety
- Measurements can be stored in up to 99 memory locations, and each location is assigned a unique, defined label for easy recall
- Automatic calculation of Dielectric Absorption (DAR) and Polarization Index (PI) with no additional setup
- Three-year warranty

The tester's accuracy is specified for one year after calibration at operating temperatures of 0° C to 35° C (32° F to 95° F). For operating temperatures outside the range (-20° C to 0° C and 35° C to 50° C) (-4° F to 32° F and 95° F to 122° F), add ±.25% per ° C, except on the 20% bands add ±1% per ° C.

lest voltage (DC)	Range	Accuracy (±reading)
250 V	< 250 k Ω 250 k Ω to 5 G Ω 5 G Ω to 50 G Ω > 50 G Ω	unspecified 5% 20% unspecified
500 V	< 500 kΩ 500 kΩ to 10 GΩ 10 GΩ to 100 GΩ $<$ > 100 GΩ	unspecified 5% 20% unspecified
1000 V	$< 1 M\Omega$ 1 MΩ to 20 GΩ 20 GΩ to 200 GΩ > 200 GΩ	unspecified 5% 20% unspecified
2500 V	< 2.5 M Ω 2.5 M Ω to 50 G Ω 50 G Ω to 500 G Ω > 500 G Ω	unspecified 5% 20% unspecified
5000 V	< 5 MΩ 5 MΩ to 100 GΩ 100 GΩ to 1 TΩ > 1 TΩ	unspecified 5% 20% unspecified
10 000 V (1555 only)	< 10 MΩ 10 MΩ to 200 GΩ 200 GΩ to 2 TΩ > 2 TΩ	unspecified 5% 20% unspecified

Functions Range Accuracy (±reading)	
Leakage current 1 nA to 2 mA $\pm (5\% + 2 \text{ nA})$	
Capacitance measurement $0.01~\text{uF}$ to $15.00~\mu\text{F}$ $\pm (15\% \text{ rdg} + 0.03~\mu\text{F})$	
Live circuit warning 30 V to 600 V AC/DC, 50/60 Hz ±(15% + 2 V)	

Combine the ir3000 FC connector and Fluke Connect™, to perform advanced insulation testing for preventive and PdM tasks through:

- PI (polarity index) and DAR (dielectric absorption ratio) tests with TrendIt™ graphs to identify problems faster
- Wireless transfer of test results from the tool to Fluke Connect™ eliminates error-prone paperwork and saves your technician's time
- Temperature compensation through Fluke Connect™ App helps establish accurate baselines and relevant historical comparisons

Fluke Connect (FC) available in selected countries. Contact your local Fluke distributors to find out more.

Recommended Accessories





Pelican Carrying Case

IR189USB

USB-IR Cable

ir3000FC 1550 ir3000 Connector

Recommended Kits Bundle and Save

Fluke 1550C 5 kV Insulation Tester

Fluke 1550C FC 5 kV Insulation Tester Kit with IR 3000FC Fluke 1555 10 kV Insulation Tester

Kit Fluke 1555 10 kV Insulation Tester Kit with IR 3000FC

Included Accessories

Test Cables with Alligator Clips (red, black, green), Infrared Adapter with Interface Cable, FlukeView™ Forms Basic CD, AC Power Cord, Soft Carrying Case, User Manual, Quick Reference Card, Software License Agreement, Registration Card, FlukeView™ Forms Installation Guide, USB-IR Cable Installation Guide, IP67 Hard Case (Kit only), Certificate of Calibration (Kit only), Ruggedized Alligator Clips (Kit and 1555 only), IR3000FC 1550 Connector (FC models only).

Ordering Information

FLUKE-1550C	5 kV Insulation Tester
FLUKE-1550C FC	5 kV Insulation Tester with IR 3000FC
FLUKE-1555	10 kV Insulation Tester
FLUKE-1555 FC	10 kV Insulation Tester with IR 3000FC
FLUKE-1550C KIT	5 kV Insulation Tester Kit
FLUKE-1550C FC KIT	5 kV Insulation Tester Kit with IR 3000FC
FLUKE-1555	10 kV Insulation Tester



Insulation Testers



FLUKE.

Fluke 1507 and 1503 Insulation **Resistance Testers**



These lightweight, affordable insulation testers are perfect for troubleshooting, commissioning and preventive maintenance applications.

- Automatic calculation of polarization index and dielectric absorption ratio (1507 only)
- Multiple test voltages: 50 V, 100 V, 250 V, 500 V, 1000 V (1507 only)
- Remote test probe for rapid testing
- Insulation test range 0.01 M Ω to 10 G Ω (1507), 0 $M\Omega$ to 2000 $M\Omega$ (1503)
- Compare (Pass/Fail) function for repetitive tests (1507 only)
- Live circuit detection prevents insulation test if voltage > 30 V is detected
- Auto-discharge of capacitive voltage
- AC/DC voltage: 0.1 V to 600 V
- Lo ohms/Earth-bond continuity (200 mA) for checking connections and motor windings
- Resistance: 0.01 Ω to 20.00 Ω
- One-year warranty



Compare function (pass/fail) for fast repetitive tests

Features	1503	1507
User-selectable test voltages for many applications	•	•
Additional test voltages 50 V, 100 V, 250 V		•
Special remote control probe for easy and safe measurements	•	•
Auto-discharge of capacitive voltage for added user protection	•	•
Live circuit detection prevents insulation test if voltage > 30 V is detected for added user protection	•	•
Save both time and money with automatic calculation of Polarization Index and Dielectric Absorption Ratio		•
Auto power off to save batteries	•	•
Large display with backlight	•	•
Continuity function (200 mA)	•	•

Insulation	1503	1507
Insulation test range	0.1 MΩ to 2000 MΩ	0.01 M Ω to 10 G Ω
Test voltages	500 V, 1000 V	50 V, 100 V, 250 V, 500 V, 1000 V
Test voltage accuracy	+ 20%, - 0%	+ 20%, - 0%
Insulation test current	1 mA nominal	1 mA nominal
AC/DC Voltage measurement	600 V (0.1 V resolution)	600 V (0.1 V resolution)
Resistance measurement range	0.01 Ω to 20 kΩ	0.01 Ω to 20 $k\Omega$
Auto discharge	Discharge time < 0.5 second for C = 1 µF or less	Discharge time < 0.5 second for $C = 1 \mu F$ or less
Maximum capacitive load	Up to 1 μF	Up to 1 μF
Open circuit test voltage	> 4 V , < 8 V	> 4 V , < 8 V
Short circuit current	> 200 mA	> 200 mA

Meter: 1000 hours Insulation Test: >1000 tests

5.0 x 10.0 x 20.3 cm (1.97 x 3.94 x 8.00 in)

550 g (1.2 lb)

e		
	Recommended A	ccessories
	TPAK	TL225
0.1	Magnetic Meter Hanger	SureGrip™ Voltage Adap Lead K
	//	
S		8/
	TL27 Heavy Duty Test	TLK28 SureGrip™ In
	Leads	Test Lead
	C116 Soft Carrying Case	C101 Hardy C
	0	9
	PVLEAD1 MC4 to 4 mm Test Lead Set	PVLEAI MC4 Solar (Test Lead
	Fluke 1507/1503	Application



TL225

SureGrip™ Stray Voltage Adapter Test

Lead Kit

TI K289

SureGrip™ Industria

Test Lead Set

C101

Hardy Case

PVLEAD3 MC4 Solar Clamp

Included Accessories

TL224 Test Leads, TP74 Test Probes, Clips PN 1958654 (red) and PN 1958646 (black), Holster, Remote Probe and User Manual.

Ordering Information

FLUKE-1507 Insulation Tester FLUKE-1503 **Insulation Tester**

Contact your local distributor for price and availability. fluke.com/findus

Fluke 1535 and 1537 2500V **Insulation Resistance Meter**



Fluke 1535 features:

- Up to 500 G Ω insulation resistance measurement range
- Fast-measurement design, faster & stable resistance reading, higher efficiency
- Automatic calculation of polarization index (PI) and dielectric absorption ratio (DAR)
- Low power design meets the requirements of high-intensity work: up to 1300 times of 2500 V measurement, and up to 6500 times of 250 V measurements*
- High-safety design with dangerous voltage alarm function, and complies with CAT IV 600V standard and China power industry specifications DLT845
- The new high-reliability design, all specifications are met even under the environment of 50 °C temperature and 80% RH; all probes and corresponding ports are tested for 30,000 mating test

Fluke 1537 adds the following features based-on the above

- AC/DC voltage and resistance measurement
- Short-circuit current >5 mA, faster and more accurate
- Fine-tunable test voltage: 250 V to 2500 V,100 V step/li>
- Step mode with linear increment test voltage (100 V/s), breakdown voltage indication
- Automatic calculation of dielectric discharge rate (DD), find insulation problems that are not easily detectable in multilayer insulation
- User-defined label, timing test, measurement results storage
- Download data with provided PC software
- 3 years warranty

Specifications	Fluke 1535 & 1537 Insulation resistance meters							
Range	< 200kΩ	200 kΩ to 500kΩ	$0.50~\text{M}\Omega$ to $5.00~\text{M}\Omega$	5.0 MΩ to 50.0 MΩ	50 M Ω to 500 M Ω	0.5 GΩ to 5.00 GΩ	5.0 GΩ to 50.0 GΩ	50 GΩ to 500 GΩ
Resolution	Not specified	1 kΩ	10 kΩ	100 kΩ	1 ΜΩ	10 ΜΩ	500 MΩ	5 GΩ
Accuracy	Not specified	5 %	5 %	5 %	5 %	5 %	5 to 20%	20%
Leakage current	measurement							
Range	1 nA to mA							
Accuracy		±(0% + 2 nA)						
Capacitance mea	asurement							
Range	0.01 μ F to 2.00 μF							
Accuracy	±(15 % rdg + 0.03 μF)							
Test voltage for i	oltage for insulation resistance							
Range	250 V to 2500 V							
Accuracy	±(3 % + 3 V)							
Timer								
Range				0 to	99 min			
Resolution		Setting: 1 min Alert: 1 s						
Warning for ene	rgized circuit							
Warning range				>	-30 V			
* Shortage current	t 1535 > 1	2 mA 1537 > 5 mA						

	ACV/DCV/resistance measurement (1537 only)					
VAC						
Range		0 V to 600.0 V				
Resolution		0.1 V				
Accuracy, ±(% rdg + digit)	±(2 % +10) (45 Hz to 500 Hz)					
VDC						
Range		0 V to 600.0 V				
Resolution		0.1 V				
Accuracy, ±(% rdg + digit)	±(2 % +10)					
Resistance						
Range	0 Ω to 600.0 Ω	0 Ω to 600.0 Ω 600 Ω to 6000 Ω 6.00 Ω to 60.00 kΩ				
Resolution	0.1 Ω	1 Ω	10 Ω			
Accuracy, ±(% rdg + digit)		±(2 % +10)				



Battery life Size (H x W x L)

Insulation Testers





Fluke 1630-2 FC Earth Ground Clamp Meter









Earth Ground Testers

Poor grounding contributes to unnecessary downtime, but a lack of good grounding is dangerous and increases the risk of equipment failure.

Without an effective grounding system, you could be exposed to the risk of

factor problems and a host of possible intermittent events. If fault currents

electric shock, instrumentation errors, harmonic distortion issues, power

have no path to the ground through a properly designed and maintained

Good grounding is more than a safety measure—it also prevents damage to industrial plants and equipment. A good grounding system will improve the reliability of equipment and reduce the likelihood of damage due to lightning or fault currents.

grounding system, they will find unintended paths that could include

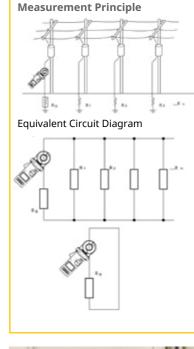


Stakeless earth ground loop and AC leakage current clamp for fast, safe indoor/outdoor earth ground resistance and AC leakage current tests.

Heavy-duty clamp jaw stays in alignment and in calibration even in every day, on-the-job industrial environments. Test the grounding components of equipment in hardto-reach spaces, including areas that are indoors or fully paved and do not permit driving auxiliary test stakes. Stay on line—identify ground loop resistance without the need to disconnect then reconnect the earth electrode from the

Stakeless measurement

The 1630-2 FC clamp measures earth ground loop resistances for multi-grounded systems using the dualclamp jaw. This test technique eliminates the dangerous and time-consuming activity of disconnecting parallel grounds, as well as the process of finding suitable locations for auxiliary test stakes. You can also perform ground tests in places that were previously difficult: inside buildings, on power pylons or anywhere you don't have access to soil to place auxiliary test stakes. With this test method, a two-process measurement is made around the earth ground wire or bus bar using the specially-designed jaw of the 1630-2 FC clamp. Auxiliary test stakes are not used at all. A known voltage is induced by the source in the clamp, and the current is measured by the sensor in the clamp. The tester automatically determines the earth loop resistance for this section of the earthing system. One-year warranty.



Ground Resistance



Electrical spec	ifications				
Maximum voltage to earth ground		1000 V			
Battery type		AA alkaline IEC/EN LR6	(x4)		
Battery life		More than 15 hours			
Frequency rang	ge	40 Hz to 1 kHz			
Ingress protect	ion	IEC 60529: IP30 with jav	w closed		
LCD	Digital reading	9999 counts			
LCD	Refresh rate	4 Hz	4 Hz		
Reference temp	perature	23 °C ±5 °C (73 °F ±9 °F)			
Display Reading Loop Resistance	g Specification with e Standard	Input (Ω)	Minimum	Maximum	
		0.47	0.41	0.53	
		0.5	0.44	0.55	
		10	9.55	10.45	
		100	96	104.0	
Data logging ca	apacity	Minimum of 32760 measurements			
Safety	General	IEC 61010-1: Pollution Degree 2, IEC 61557-1			
Salety	Measurement	IEC 61010-2-032: CAT IV 600 V / CAT III 1000 V			
Current clamp for leakage current measurements		IEC 61557-13: Class 2, ≤30 A/m			
Resistance to Earth		IEC 61557-5			
Effectiveness of the protective measures		IEC 61557-16: cutoff frequency 20 kHz (-3 dB)			
General specifications					
Conductor size		40 mm (1.57 in) approximately			
Dimensions (L x W x H)		283 x 105 x 48 mm (11.1 x 4.1 x 1.9 in)			
Weight		880g (31 oz)			

Conductor size	40 mm (1.57 in) approximately
Dimensions (L x W x H)	283 x 105 x 48 mm (11.1 x 4.1 x 1.9 in)
Weight	880g (31 oz)

Fluke Connect (FC) available in selected countries. Contact your local Fluke distributors to find out more.

Included Accessories

Hard Case, Loop Resistance Standard, Four AA Batteries, Safety Information Guide and Quick Reference Guide.

Ordering Information

Fluke-1630-2 FC Earth Ground Loop and Leakage

Fluke-1630-2

Earth Ground Loop and Leakage

Contact your local distributor for price and availability. fluke.com/findus





Clamp

Fluke 1620-2 Series Geo Earth Ground Testers



Fluke 1625-2



Fluke 1623-2



The Fluke 1623-2 and 1625-2 Earth Ground Testers offer data storage and download capabilities via USB port, a large display, and world class accessories that simplify and speed up testing time

These unique earth ground testers that can perform all four types of earth ground measurement:

- 3 and 4-Pole Fall-of-Potential (using stakes)
- 4-Pole Soil Resistivity testing (using stakes)
- Selective testing (using 1 clamp and stakes)
- Stakeless testing (using 2 clamps only)
- IP56 rated for outdoor use
- Professional carrying case
- USB data storage and transfer
- Two-year warranty

In addition, the Fluke 1625-2 offers these advanced features:

- Automatic Frequency Control (AFC) identifies existing interference and chooses a measurement frequency to minimize its effect, providing more accurate earth ground value
- R* measurement calculates earth ground impedance at 55 Hz to more accurately reflect the earth ground resistance that a fault-to-earth ground would see
- Adjustable limits for quicker testing

Earth ground resistance and soil resistivity should be measured when:

- Designing earth ground systems
- Installing new ground system and electrical equipment
- Periodically testing ground and lightning protection systems
- Installing large electrical equipment such as transformers, switchgears, machines, etc.

Features	1623-2	1625-2
	1025-2	1025-2
One-button measurement concept	•	
3- and 4-pole Fall of Potential, earth resistance loop testing	•	•
4-Pole soil resistivity testing	•	•
2-Pole resistance measurement AC		•
2-and 4-pole resistance measurement DC		•
Selective testing, no disconnection of ground conductor (1 clamp)	•	•
Stakeless testing, quick ground loop testing (2 clamps)	•	•
Measuring frequency 128 Hz	•	
Earth impedance measurement at 55 Hz		•
Automatic frequency control (AFC) (94 - 128 Hz)		•
Measuring voltage switchable 20/48V		•
Programmable limits, settings		•
Continuity with buzzer		•
Dust/water resistance	IP56	IP56
Safety rating	CAT II 300 V	CAT II 300 V

Specifications	1623-2	1625-2	
Resistance ranges	0 to 20 kΩ	0 to 300 kΩ	
Operating error	±10%	±5%	
Test voltage	48 V	20 / 48 V	
Short circuit current	> 50 mA	250 mA	
Weight	1.1 kg (2.43 lb) (including batteries)	1.1 kg (2.43 lb) (including batteries)	
Dimensions (W x H x D)	250 x 133 x 187 mm (9.75 x 5.25 x 7.35 in)		
Battery type	AA alkaline IEC/EN LR6 (x6)		

These products are for unpowered installations measuring grounding connections.



Included Accessories

Fluke 1623-2: Protective Holster, 2 Test Leads, 2 Alligator Clips, User Manual.

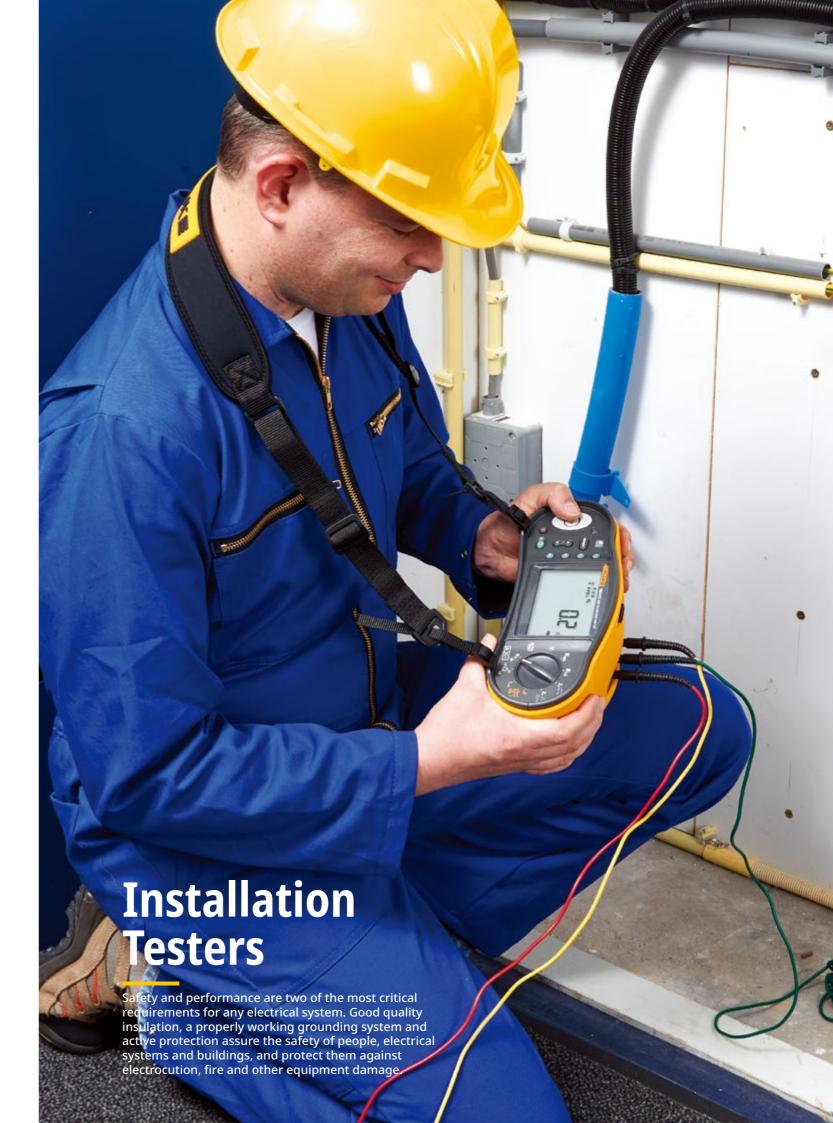
Fluke 1623-2 Kit: Same as above plus Stake/Reel, Set 4 Pole and Selective/ Stakeless Clamp Set.

Fluke 1625-2: Protective Holster, 2 Test Leads, 2 Alligator Clips, User Manual. Fluke 1625-2 Kit: Same as above plus

Stake/Reel, Set 4 Pole and Selective/ Stakeless Clamp Set.

Ordering Information		
FLUKE-1623-2	Basic GEO Earth Ground Tester	
FLUKE-1623-2 KIT	Basic GEO Earth Ground Tester Kit	
FLUKE-1625-2	Advanced GEO Earth Ground Tester	
FLUKE-1625-2 KIT	Advanced GEO Earth Ground	

Tester



FLUKE

Fluke 1660 Series Multifunction Installation **Testers**



















Fluke 1660 Series Multifunction Installation Testers verify the safety of electrical installations in domestic, commercial and industrial applications. They can ensure that fixed wiring is safe and correctly installed to meet the requirements of IEC 60364 and all relevant local standards.

Three-year warranty.

Fluke 1664 FC - The complete tester for advanced users

The Fluke 1664 FC is the only installation tester that protects connected appliances from damage during insulation tests, and allows you to share your test results wirelessly by smartphone with coworkers or customers. Fluke's patented Insulation PreTest stops you from performing tests with appliances that are connected to the system during test. This helps eliminate accidental damage and keeps your customers happy.

In addition, the Fluke 1664 FC offers you the power of Fluke Connect™. Now you can send test results straight from your Fluke 1664 FC to your smartphone, and transmit those results to other members of your team.

Fluke 1663 - The ideal tester for professional troubleshooters

This instrument is ideal for professional users' high-end functionality, advanced measurement capability, yet it is still easy to use.

Fluke 1662 - A solid, basic installation tester

The Fluke 1662 gives you Fluke reliability, simple operation and all the testing power you need for basic installation testing.

Measurement function	1664 FC	1663	1662
Insulation PreTest safety function	•	-	-
Insulation at L-N, N-PE inputs	•	-	-
Auto Test sequence	•	-	-
Loop and line resistance–m Ω resolution	•	-	-
Continuity at L-N, N-PE inputs	•	•	-
Test smooth dc sensitive RCDs (Type B/B+)	•	•	-
Earth resistance	•	•	-
Wiring polarity checker, detects broken PE and N wires	•	•	•
Insulation resistance	•	•	•
Continuity and resistance	•	•	•
Measure motor windings with continuity test (@ 10 mA)	•	•	•
Loop and line resistance	•	•	•
Prospective earth fault current (PEFC/IK)	•	•	•
Prospective short-circuit current (PSC/IK)	•	•	•
RCD trip time	•	•	•
RCD trip current (ramp test)	•	•	•
Measures trip time and current for RCD type A and AC in one test	•	•	•
Automatic RCD test sequence	•	•	•
Phase sequence test	•	•	•
Other features			
Fluke Connect™ compatibility	•	-	-
ShareLive™ calling	•	-	-
On/Off switchable auto-start for RCD and Looptest	•	•	•
Self-test	•	•	•
Memory, interface			
Z Max memory	•	•	-
Memory	•	•	•
IR-USB and BLE interface (when used with optional FVF software)	IR-USB/BLE	IR-USB	IR-USE

Fluke Connect (FC) available in selected countries. Contact your local Fluke distributors to find out more.







Fluke FVF-SC2 Software

To address the increasing demands for reporting and documentation, we've added FlukeView™ Forms Software to the Fluke 1663 and 1664 FC Testers.

Included Accessories

Six AA (IEC LR6) Batteries, C1600 Hard Carrying Case, Zero Adapter, Heavy Duty Mains Cord, STD Standard Test Lead Set, Padded Carrying and Waist Strap, Quick Reference Guide, TP165X Remote Control Probe and Lead Set, User Manual on CD.

Ordering Information

1664 FC

Multifunction Installation Tester with Auto Test, Insulation PreTest, Fluke Connect[™] compatibility with FlukeView™ Forms

Fluke

Multifunction Installation Tester with FlukeView™ Forms Software **Multifunction Installation**

Fluke

Contact your local distributor for price and availability. fluke.com/findus

Fluke 1670 Series Multifunction Installation **Testers**





Fluke 1674 FC



A single solution for all your installation testing needs simplified setup, faster testing, easier reporting.

The Fluke 1670 Series Multifunction Installation Testers will revolutionize the way you work. With an ergonomic design, seamless user interface, integrated data management capabilities, wireless connectivity (1673 FC and 1674 FC), and comprehensive reporting software, the 1670 Series sets the new standard for an integrated installation testing

Reliable installation testing is essential for ensuring the safety, optimal functionality, and integrity of a facility's electrical systems. The 1670 Series' rugged design allows you to verify the safety of electrical installations in domestic, commercial, and industrial applications while meeting the requirements of IEC/HD 60364-6 and all relevant local installation test

With the 1670 Series, you'll be able to perform your required testing faster and reduce the time you spend on documentation, all while having the ultimate confidence in the data

- Simple bidirectional user interface eliminates complex multi-level menus
- Easy setup with the full-color touch screen, smart device, or a PC
- Fast, accurate testing with Auto Test and Automatic Measurement Validation
- Fluke Connect compatibility eliminates tedious data entry
- Preview results and generate certificates on site with Fluke TruTest™ software

General Specifications	
Size	26.25 cm x 14.19 cm x 11.93 cm (10.3 in x 5.6 in x 4.7 in)
Weight (incl. batteries)	1.6 kg (3.5 lb)
Battery size, quantity	BP290, Li-ion, 10.8 V, 2500 mAh, 27 Wh
Ingress Protection	IEC 60529: IP40
Safety	Complies with IEC/EN 61010-1, IEC 61010-2-030, IEC 61010-2-034
Safety rating	CAT III 600 V, CAT IV 300 V
Performance	IEC 61557-1 to IEC/EN 61557-8 and IEC 61557-10

Voltage measurement AC, DC, and frequency				
Range	Resolution	Input Impedance	Overload Protection	
600 V	0.1 V	320 kΩ	660 V	
45-66 Hz	0.1 Hz	320 kΩ	-	

Continuity testing (R _{LO})		
Range (Auto ranging)	Resolution	Open Circuit Voltage
20 Ω/200 Ω/2000 Ω	0.01 Ω/0.1 Ω/1 Ω	> 4 V
45-66 Hz	0.1 Hz	-

	1672	100-250-	500-1000 V
1673	FC/1674 FC	50-100-25	0-500-1000 V
Test Voltage	Insulation Resistance Range	Resolution	Test Current
50 V	10 kΩ to 50 MΩ	0.01 ΜΩ	1 mA @ 50 kΩ
100 V	10 kΩ to 20 MΩ 20 MΩ to 100 MΩ	0.01 MΩ 0.1 MΩ	1 mA @ 100 kΩ
250 V	10 kΩ to 20 MΩ 20 MΩ to 200 MΩ	0.01 MΩ 0.1 MΩ	1 mA @ 250 kΩ
500 V	10 kΩ to 20 MΩ 20 MΩ to 200 MΩ 200 MΩ to 500 MΩ	0.01 MΩ 0.1 MΩ 1 MΩ	1 mA @ 500 kΩ
1000 V	100 kΩ to 200 MΩ 200 MΩ to 1000 MΩ	0.1 MΩ 1 MΩ	1 mA @ 1 MΩ

Surge Protection Device (SPD) Insulation RAMP Test (Varistor Test) IEC 61643-11				
Test Voltage	Voltage Ranges	Resolution	Test Current	Accuracy
500 V	Step Ramp 0 V to 500 V	1 V	1 mA	± (1.5 % + 3 digits)
1000 V	Step Ramp 0 V to 1000 V	1 V	1 mA	± (1.5 % + 3 digits)

Connections from the Tester to L, N, and PE are required

Fluke Connect (FC) available in selected countries. Contact your local Fluke distributors to find out more.

Insulation safety pretest



Multifunction Installation Testers

Insulation Monitoring Devices (IMD) IEC 61557-8				
Range	Resolution	Note		
1 kΩ to 10 kΩ	1 kΩ			
10 k Ω to 100 k Ω	10 kΩ	> 1 MΩ only available with voltages >100 V		
100 kΩ to 3 MΩ	100 kQ			

Loop and line impedance (ZI No Trip and Hi Current)

Range Setting	Resolution	Accuracy ^[1]
10 Ω ^[2]	0.001 Ω	Hi Current mΩ mode: ± (2 % + 35 digits) No Trip (2&3 wire) mode: ± (3 % + 6 digits)
20 Ω	0.01 Ω	Hi Current mode: ± (2 % + 4 digits)
200 Ω	0.1 Ω	No Trip mode: ± (3 %) Hi Current mode: ± (2 %)
2000 Ω	1 Ω	± 6 % ^[3]

- [1] Valid for resistance of neutral circuit < 20 Ω and up to a system phase angle of 30°. Test leads must be zeroed before testing. [2] Fluke Connect™ 1674 FC model only.
- [3] Valid for mains voltage > 200 V.

Prospective Earth Fault Current (PEFC) Prospective	e Short Circuit Current (PSC)	
Range	Resolution	Resolution
O kA to FO kA	IK < 1000 A	1 A
0 kA to 50 kA	IK > 1000 A	0.1 kA

Computation: Prospective Earth Fault Current (PEFC/IK) or prospective short circuit current (psc/IK) determined by dividing measured mains voltage by measured loop (L-PE) resistance or line (L-N) resistance, respectively.

Range	Resolution	Accuracy
0.0-99.9%	0.1%	Consider accuracy of line
0.0-99.9%	0.176	impedance measurement(s)

Note: Voltage drop reading is calculated from line impedance measurement & entered current rating

RCD tests, RCD types tested				
RCD T	Type ^[1]	1672	1673 FC	1674 FC
AC ^[2]	G ^[3]	•	•	•
AC	S ^[4]	•	•	•
A ^[5] , F ^[6]	G	•	•	•
A, F	S	•	•	•
B, B+ ^[7]	G		•	•
B, B+	S		•	•
RDC-DD, RCD A/EV, RCD B/Mi ^[8]			•	•
GFCI		•	•	•

- [1] RCD test inhibited for V > 265 AC [2] RCD tests permitted only if the selected current, multiplied by earthing resistance, is < 50 V. [3] AC Responds to AC

- [3] AC Responds to AL
 [4] G General, no delay
 [5] S Time delay
 [6] A Responds to AC and pulsed signal
 [7] F responds to AC, pulsed and high frequency
 [8] B, B+ Responds to AC, pulsed, high frequency, and smooth DC
 [9] RDC-DD Responds to residual currents of 6 mA DC

RCD tripping time test (ΔT)

Test Function				RCD Curre	nt Selection			
rest Function	10 mA	30 mA	100 mA ^[1]	300 mA ^[1]	500 mA ^[1]	1000 mA ^[2]	Var ^[3]	
x½, 1	•	•	•	•	•	•	•	•
x5	•	•	•					
Ramp	•	•	•	•	•	•	•	•
Auto	•	•	•					

- Mains voltage 50 V 265 V ac, 45/66 Hz
 [1] Type B RCDs require mains voltage range of 195 V to 265 V.
 [2] Type AC RCDs only.
 [3] Type A RCDs are limited to 700 mA, not available for Type B RCDs.

I	Current Range	Step Size	Dwell	l Time	Measurement Accuracy
	Current Kange	3tep 3ize	Type G	Type S	Measurement Accuracy
Ī	30 % to 110 % of RCD-rated current ^[1]	10 % of I _{ΔN} ^[2]	300 ms/step	500 ms/step	± 5 %

[1] Specified trip current ranges (IEC 61008-1): 30 % to 150 % for Type A I∆ N > 10 mA 30 % to 210 % for Type A I∆ N = 10 mA 20 % to 210 % for Type B 50 % to 100 % for Type AC 35 % to 140 % for Type A (> 10 mA) 35 % to 200 % for Type A (< 10 mA) 50 % to 200 % for Type B [2] 5 % for Type B

Earth resistance test (RE) 1673 FC and 1674 FC only	у		
Range	Resolution	Frequency	Output Voltage
200 Ω/2000 Ω	0.1 Ω/1 Ω	128 Hz	25 V
Phase sequence indication			
Icon 🔘	Range	Display	Output Voltage
Phase Sequence indicator is active	185 V to 600 V	"1-2-3": or "3-2-1" for incorrect phase	25 V



FLUKE

Power Quality Tools Selection Guide

						i			
Basic measurements	Application use	Single-Phase				Three-Phase			
המזור וווכמזמו כוווכוווז	שפה ושפה שלט	VR1710	1732/34	1736/38	1742	1746/1748	1773	1775	1777
Energy studies									
Measure V, I, kW, Cos/DPF, kWhr	Get detailed nower and energy consum-		•	•	•	•	•	•	•
Measure MIN/MAX and AVG values	tion profiles during energy audits and		•	•	•	•	•	•	•
Waste energy monetization	pinpoint savings opportunities								
Basic harmonics study									
THD measurement (V & I)	Discover the source of distortion in your in-	•	•	•	•	•	•	•	•
Harmonics 1 to 25 for V & I	stallation, so that you can filter those loads or move them to separate circuits	(V only)		•		•	•	•	•
Advanced harmonics study									
Full harmonic spectrum	If distorting loads are causing problems in			•		•	•	•	•
Power harmonics	your installation, you need comprehensive data to identify the source and create a solution						•	•	•
Basic industrial PQ troubleshooting									
Oscilloscope function	When troubleshooting in the field, graphi-			•			•	•	•
Voltage dips and swells	cal data enables you to trace the source of the problem at hand	•		•		•	•	•	•
Advanced industrial PQ troubleshooting									
Comprehensive logging capability	Complex installations often require a deep-			•	•	•	•	•	•
Transient capture	er dive into measurement data. Multiple loads may be interacting randomly to	•						•	•
Flicker	cause a single problem	•			•	•	•	•	•
Event capture and transients with waveforms	St							•	•
8kV transients								1 MHz	20 MHz
Features									
Inrush				•		•	•	•	•
Flicker					•	•	•	•	•
Transients								•	•
Mains signaling						•	•	•	•
Event waveform capture				•			•	•	•

NEW

Fluke 1770 Series Power Quality Analyzers



Fluke 1777









The faster, easier way to perform power quality studies.

Fluke 1770 Series Three-Phase Power Quality Analyzers eliminate the complexities of power quality logging, troubleshooting, and analysis. Engineered to be the faster, easier way to perform power quality studies, the 1770 Series offers automatic measurements, a straightforward user interface and setup, best-in-class specifications, and a simplified reporting platform. The instrument can also be powered directly from the measurement circuit, eliminating the need to find a power outlet or use a lengthy extension cord. With the 1770 Series you'll never miss a critical power quality event—from fast transients up to 8 kV, harmonics up to 30 kHz, dips and swells, as well as the voltage, current, and power measurements that enable you to characterize your electrical system.

- True power quality tool: Captures all the key measurements you need to determine power quality health automatically without additional setup, including key power quality parameters harmonics, dips, swells, unbalance, inrush etc.
- AC/DC applications: Measure AC up to 6000 A and DC up to 2000 A
- High speed transients: 20 MS/s (1777) & 1 MS/s sampling up to 8 kV to enable capture of high voltage, high speed transients that can cause physical damage to equipment
- Class A compliant: Perform tests knowing you are fully compliant with stringent international IEC 6100-4-30 Class A standards
- Power quality health summary: Automatically evaluate power quality inputs against the EN 50160 electrical standard, providing detailed troubleshooting of problem areas
- Real time data: At-a-glance "Advanced Power Quality Health" summary screen with

graphical representation, allows you to analyze real time data and zoomed views while all your recording needs are taken care of

- Simple guided setup functionality: Auto-detection of system type (WYE/Delta/ Frequency 50-60 Hz/Nominal voltage) and auto-population of non-system-specific parameters
- Ease of operation: High resolution capacitive touch-screen and button user interface ensures that gloved operation is simple and easy providing clear results in seconds
- Power system connection and instrument setup autocorrection: Automatically detect and correct errors in voltage and current wiring, manual correction also available
- Automatic parasitic power from measurement line: Power internal battery with 120/240 V AC adapter or direct connection to measurement line (up to 600 V AC)
- Customized views and reporting: Create custom views to operate more efficiently and simply. Using Energy Analyze Plus software custom reporting templates can be created
- Highest safety rating in the industry: CAT III 1000 V / CAT IV 600 V rated for use at service entrance
- Easy access to data: with 8 GB of internal memory, expandable to 32 GB, continual
 powering of measurement circuits and advanced communication options such as
 WIFI and LTE communication, no event or data will be missed
- Two-year warranty

	1773	1775	1777
Applications			
Harmonic surveys	•	•	•
Basic power and power quality studies	•	•	•
Energy surveys and load testing	•	•	•
Nuisance circuit breaker tripping		•	•
Advanced power and power quality studies		•	•
Discovery of equipment failures caused by transients		•	•
Utility power quality surveys		•	•
Diagnose electronic equipment damage with capture of high speed, high magnitude (8 kV) voltage transients			•
Features			
Event capture with table	•	•	•
Event capture and transient with waveforms		•	•
High speed transient capture with waveshape analysis in FEA+ application software		1 MHz	20 MHz

Learn more



fluke.com/sea.1



Captures all the key measurements you need to determine power quality health.



Log up to 10 sessions of 8 weeks with 1-minute intervals and 100 events.



Fluke 1777 Power Quality Analyzer kit with included iFlex™ and Alligator clips.



FLUKE.

Voltage inputs 4 inputs, 3 phases and neutral referenced to PE (5 connectors) Number of inputs CAT III 1000 V / CAT IV 600 V Measurement category 1000 V rms / 1000 V DC (1700 Vpk) Maximum input voltage Wve and single phase: variable (50 V - 1000 V) Delta: Variable (100 V – 1000 V) Nominal voltage range IEC 61000-4-30 Class A compliance for the nominal voltages (Vdin) 10 M Ω between P-P and P-N, 5 M Ω between P-PE and N-PE Input impedance DC to 30 kHz for PQ measurements, excluding transients Bandwidth Resolution 24-bit synchronous sampling Sampling frequency 80 kS/s at 50/60 Hz Scaling 1:1, variable for use of potential transformers 1775: 1 MS/s Sampling rate 1777: 1 MS/s, 20 MS/s Bandwidth DC to 1 MHz Adjustable trigger level. Triggers on high-frequency components >1.5 kHz Trigger 14-bit synchronous sampling Resolution Current inputs 4 inputs 3 phases and Neutral, range selected automatically to attached sensor Number of inputs 1 A to 1500 A with i17XX-FLEX1500 12 1 A to 1500 A with i17XX-FLEX1500 24 3 A to 3000 A with i17XX-FLEX3000 24 6 A to 6000 A with i17XX-FI FX6000 36 Range 40 mA to 40 A with clamp i40s-EL 4 A to 400 A with clamp i400s-EL 20 A to 2000 A with 80i-2010-FL clamp DC to 30 kHz Bandwidth Resolution 24-bit synchronous sampling 80 kS/s at 50/60 Hz Sampling frequency 1:1, variable Scaling Clamp: 50 mV / 500 mV rms: CF 2.8 Rogowski Coil: 15 mV / 150 mV rms at 50 Hz, 18 mV / 180 mV rms at 60 Hz; CF 4 all Input voltage Input impedance 11 kO Aux inputs Wired connection with 17xx-AUX adapter Number of inputs

Direct: 0 V DC to ±10 V DC or 0 V to ±1000 V DC

Fluke PQ400 Electrical Measurement Window

Direct: 2.92 MΩ



Input range

Input impedance

Fluke PQ400



Compliance without compromise. Safety without sacrifice.

The Fluke PQ400 Electrical Measurement Window enables the connection of three-phase measurement equipment to energized panels, without the need to open the panel door, or wear supplemental personal protective equipment (PPE).

- Permanently connected voltage and current sensors located inside the electrical panel allow you to make power quality and energy measurements using the external access points without opening the panel
- Automatic probe detection for Fluke 1740, 1730 and 1770 series power quality analyzers and energy loggers and compatible clamps
- Full 360 degree rotation allows the PQ400 window to be oriented in any direction
- Simple installation using a step drill bit and electrohydraulic hole punch
- IP67 with cover closed, IP50 with cover opened and all connectors attached
- Five-year warranty

Recommended Accessories i40s-EL/3pk i400s 40 A Clamp-on AC Current Clamp Current Transforme

(individual or 3pk)

Included Accessories

17XX iFlex™ 1500 A 24 IN, Voltage Test Lead 3-Phase+N, 4x AC285 Black Alligator Clips, 1x AC285 Green Alligator Clip, USB-C Cable, Line Cord, FLK-17XX 0.18 M Test Lead Set, Green Test Lead, Cable Marker Set, WiFi/BLE Module (1775, 1777), Magnet Probe (1775, 1777), Hanger Kit (1775, 1777), Black Soft Case (1775), Hardcase (1777)

PQ400: Enclosure, 4× Male-Male Cable 2 m for iFlex™ Current Probes, Cable Marker Set 3P+N+PE, Cable Ties, Instruction Sheet.

Ordering Infor	mation
FLUKE-1773	Three-Phase Power Quality Analyzer w/ Accessories
FLUKE-1773/ BASIC	Three-Phase Power Quality Analyzer Only
FLUKE-1775	Three-Phase Power Quality Analyzer w/ Accessories
FLUKE-1775/ BASIC	Three-Phase Power Quality Analyzer Only
FLUKE-1777	Three-Phase Power Quality Analyzer w/ Accessories
FLUKE-1777/ BASIC	Three-Phase Power Quality Analyzer Only
FLUKE-PQ400	Power Quality Window

Contact your local distributor for price and availability. fluke.com/findus

Fluke 1732 and 1734 Three-Phase **Electrical Energy Loggers**









Energy logging is now within your reach — discover where you're wasting energy, optimize your facility's energy use and reduce your

The Fluke 1732 and 1734 Three-Phase Electrical Energy Loggers introduce a new simplicity to discovering sources of electrical energy waste. Discover when and where energy in your facility is being consumed—from the service entrance to individual circuits. Access and share data remotely with your team via the Fluke Connect™ app so you can maintain safer working distances and make critical decisions in real-time, reducing the need for protective equipment, site visits and

check-ins.

Profiling energy use across your facility helps you identify opportunities for energy savings, and provides you with the data you need to act on them. The new Energy Analyze software package allows you to compare multiple data points over time to build a complete picture of energy use, which is the first step to reduce the cost of your

- Key measurements: Automatically capture and log voltage, current, power, power factor, energy and associated values
- Fluke Connect™ compatible: View data locally on the instrument, via Fluke Connect™ mobile app and desktop software or through your facilities' WiFi infrastructure
- Convenient instrument powering: Power instrument directly from the measured
- Highest safety rating in the industry: CAT IV 600 V / CAT III 1000 V rated for use at the service entrance and downstream
- Measure all three-phases: With included three flexible current probes
- Fully integrated logging: Connect other Fluke Connect™ devices to the Fluke 1734 to simultaneously log up to two other measurement parameters, virtually any parameter available on a Fluke Connect™ wireless digital multimeter or module
- Energy Analyze Plus application software: Download and analyze every detail of energy consumption with our automated reporting
- One-year warranty

Specifica	20013			*
Paramet	er	Range	Max resolution	Intrinsic accuracy at reference condition (% of reading +% of full scale)
Voltage		1000 V	0.1 V	±(0.2% + 0.01%)
	i17xx-flex 1500 12"	150 A 1500 A	0.1 A 1 A	±(1% + 0.02%) ±(1% + 0.02%)
Current	i17xx-flex 3000 24"	300 A 3000 A	1 A 10 A	±(1% + 0.03%) ±(1% + 0.03%)
Current	i17xx-flex 6000 36"	600 A 6000 A	1 A 10 A	±(1.5% + 0.03%) ±(1.5% + 0.03%)
	i40s-EL clamp	4 A 40 A	1 mA 10 mA	±(0.7% + 0.02%) ±(0.7% + 0.02%)
Frequenc	СУ	42.5 Hz to 69 Hz	0.01 Hz	±(0.1%)
Aux inpu	t	±10 V DC	0.1 mV	±(0.2% + 0.02%)
Voltage r	min/max	1000 V	0.1 V	±(1% + 0.1%)
Current r	min/max	defined by accessory	defined by accessory	±(5% + 0.2%)
THD on v	oltage	1000%	0.1%	±0.5
THD on c	current	1000%	0.1%	±0.5
Voltage harmonics 2nd 50th		1000 V	0.1 V	≥ 10 V: ±5% of reading < 10 V: ±0.5 V
Current h	narmonics 2nd 50th	defined by accessory	defined by accessory	≥ 3% of current range: ±5% of reading < 3 of current range: ±0.15% of range
Unbaland	ce	100%	0.1%	±0.2

Fluke Connect (FC) available in selected countries. Contact your local Fluke distributors to find out more.

Recommended Accessories



1500 A 12 inch iFlex

Current Clamps

(Purchase as

3pk or 4pk)



3000 A 24 inch iFlex" Current Clamps (Purchase as 3pk or 4pk)



i40s-EL/3pk 40 A Clamp-on

individual or 3pk)

6000 A 36 inch iFlex Current Clamps Current Transformer 3 pack (Purchase as (Purchase as individual, 3pk or 4pk)



1730-Hangei

Hanging Strap Kit

FLUKE-17XX-TL 1.5M Test Lead Set, 1000V CAT III, Non-stackable

Red/Blk Red/Blk

MP1-Magnet Probe Magnet Probes for 4mm banana, Set of 4

1732/UPGRADE Upgrade Kit for



Included Accessories

1732 to 1734

Power Supply, Voltage Test Leads, 4× Alligator Clips, 3× 12 inch 1,500A Flexible Current Probe, Soft Case, Energy Analyse Plus Software, Line Cords, Colour Coding Set and Documentation on USB Flash Drive, Magnetic Hanging Strap (1734) and Magnetic Voltage Probes (1734).

Ordering Information

FLUKE 1732/B Energy Logger, Basic Version (excl. current probes) FLUKE 1732/ **Energy Logger**

(incl. current probes)

FLUKE 1734/B

Energy Logger, **Basic Version with** Fluke Connect™ (excl. current probes)

FLUKE 1734/ INTL

Energy Logger (incl. current probes)

Contact your local distributor for price and availability. fluke.com/findus



Fluke 1736 and 1738 Three-**Phase Power Loggers**



Fluke 1736





Fluke 1738



More visibility, reduced uncertainty

The Fluke 1736 and 1738 Three-Phase Power Loggers built with Fluke Connect™ mobile app and desktop software compatibility give you the data you need to make critical power quality and energy decisions in real-time. The ideal test tools for conducting energy studies and basic power quality logging, the 1736 and 1738 automatically capture and log over 500 power quality parameters so you have more visibility into the data you need to optimize system reliability

- Measure all three-phases and neutral with included 4 flexible current probes.
- Comprehensive logging: More than 20 separate logging sessions can be stored on the instruments. In fact, all measured values are automatically logged so you never lose measurement trends.
- Capture dips, swells, and inrush currents: Includes event waveform snapshot and high resolution RMS profile, along with date, timestamp and severity to help pinpoint potential root causes of power quality
- Optimized user interface: Capture the right data every time with quick, guided, graphical setup and reduce uncertainty about your connections with the intelligent verification function.
- Complete "in-the-field" setup through the front panel or Fluke Connect™ App: No need to return to the workshop for download and setup or to take a computer to the electrical
- Energy Analyze Plus application software: Download and analyze every detail of energy consumption and power quality state of health with our automated
- One-year warranty

	Three-Phase Energy Loggers		Three-Phase Energy Loggers		
	1732 Energy Logger	1734 Energy Logger	1736 Power Logger	1738 Advanced Power Logger	
Load studies	•	•	•	•	
Energy assessments	•	•	•	•	
Neutral Current Measurement (four current channels)	-	-	•	•	
Harmonics measurements	-	-	•	•	
Voltage event capture	-	-	•	•	
Advanced analysis: Waveform and Inrush event capture PQ Health (EN 51060)	-	-	Upgrade package*	•	
Fully integrated logging with Fluke Connect™	Upgrade package*	•	Upgrade package*	•	
WiFi	Optional	•	•	•	
Wi-Fi / Bluetooth	Optional	•	Optional	•	
Magnetic probe set	Optional	•	Optional	•	
Magnetic hanger	Optional	•	Optional	•	
Connection via WiFi router		oftware license oduct registration.		software license oduct registration.	

^{*}Upgrade packages are available to upgrade existing 1732 Energy Loggers with the same features of the 1734 Energy logger, and to upgrade existing 1736 Power Loggers with the same features and capabilities of the 1738 Advanced Power Logger. Please note that 1732 and 1734 Energy Loggers cannot be upgraded with the functionality of 1736 and

Fluke Connect (FC) available in selected countries. Contact your local Fluke distributors to find out more.



Recommended Accessories 000 i17XX-FLEX 1500 i17XX-FI FX 3000 1500 A 12 inch iFlex¹ 3000 A 24 inch iFlex" Current Clamps Current Clamps (Purchase as (Purchase as



3pk or 4pk)

i40s-el/3pk 40 A Clamp-on Current Transforme (Purchase as



17XX-TL 1.5M Test Lead Set, 1000V CAT III. Non-stackable Red/Blk



3pk or 4pk)

0

Current Clamps

(Purchase as

individual, 3pk or 4pk)

99







Included Accessories

Power Supply, Voltage Test Leads, 4× Alligator Clips, 4× 12 inch 1500A Flexible Current Probe, Soft Case, Energy Analyze Plus Software, WiFi Adapter, Line Cords, Color Coding Set and Documentation on USB Flash Drive, Magnetic Hanging Strap (1738) and 4× Magnetic Voltage Probes (1738).

Ordering Information

B	Version (excl. current probes)
FLUKE-1736/ INTL	Power Logger, (excl. current probes)
FIUKE 1738/B	Power Logger, Advanced Version (excl. current probes)
FLUKE-1738/ INTL	Power Logger, Advanced Version (excl. current probes)

Contact your local distributor for price and availability. fluke.com/findus

Fluke 1742, 1746 and 1748 Three-**Phase Power Quality Loggers**







Functions

Energy

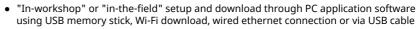
fluke.com/sea.1748

Troubleshoot, quantify energy usage and perform quality of service surveys easier than ever

The Fluke 1742, 1746 and 1748 Three-Phase Power Quality Loggers give you fast, easy access to the data you need to make critical power quality and energy decisions in real time, and with the included Energy Analyze Plus software package you can easily create detailed

Fully compliant with international power quality standards such as IEC 61000-4-30 Class A including local compliance to a variety of national and international standards and capable of simultaneously logging up to 500 parameters while also capturing events, the Fluke 1740 Series helps uncover intermittent and hardto-find power quality issues more easily than ever. Energy Analyze Plus software quickly assesses the quality of power at the service entrance, substation, or at the load, according to national and international standards.

Quality Logger Quality Logger Quality Logger



- One-touch reporting: Create standardized reports or export data in PQDIF or NeQual compatible format for use with third-party software
- Capture dips, swells and interruptions

WiFi download Instrument to device

Wifi download via WiFi hub (requires registration)

- Measures harmonics and interharmonics for voltage and current; also includes unbalance, flicker and rapid voltage changes
- Two-year warranty (battery not included)

Measure all power quality and power paramaters

Basic Power Quality	Optional	•	•
Advanced Power Quality	Optional	Optional	•
Selection Guide	1742 Power Quality Logger	1746 Power Quality Logger	
Functions			
Voltage, current, power, power factor, frequency	•	•	•
Energy forward/reverse	•	•	•
Peak Demand	•	•	•
THD	•	•	•
Voltage and current harmonics (to 50th)	-	•	•
Flicker	•	•	•
Unbalance	-	•	•
Rapid voltage change events	-	•	•
Interharmonics (to 50th)	-	•	•
Dips, swells, interruption and transient events tables	-	•	•
Mains signaling	-	•	•
Inrush current	-	•	•
Transients (low frequency)/Waveform deviation events	-	-	•
Recording	-	-	-
Trend	•	•	•
Waveform snapshots	-	-	•
RMS profile	-	-	•
Communication	-	-	-
Ethernet	•	•	•
USB (mini B)	•	•	•

Recommended Accessories

IP65 iFlex™ 1.5KA

60 cm (24") Current

Probes (Purchase as

ndividual, 3pk or 4pk)





IP65 iFlex™ 3KA 60 cm (24") Current Probes (Purchase as 3pk or 4pk)





IP65 iFlex™ 6KA 90 cm (36") Current Probes (Purchase as Current Transforme (Purchase as individual or 3pk)



individual,

3pk or 4pk)



(3× Red, 1× Black)

IP65 VOLT CONN IP65 Rated Voltage Connector



17XX AUX Auxiliary Input Adapter



174X Hanger Kit



1742-6/8 UPGRADE Upgrade Kit 1742 to 1746/1748 & 1746 to

Included Accessories

4× Flexible Current Probes, USB Stick, USB Cable, 3PHVL-1730 3-Phase + Neutral Voltage Test Lead, Test Lead Set Red/Black 0.18m, Test Lead Set Red/Black 1.5m, 4× Alligator Clips, 173x/174x Soft Case, Cable Marker Kit, MP1-3R/1B-Magnet Probe 1 Set (3 Red, 1 Black) and Hanger Kit (1748).

Ordering Information

INIL	Quality Logger
FLUKE-1742/30/	Three-Phase Powe
INTL	Quality Logger
FLUKE-1746/15/	Three-Phase Powe
INTL	Quality Logger
FLUKE-1746/30/	Three-Phase Powe
INTL	Quality Logger
FLUKE-1748/15/	Three-Phase Powe
INTL	Quality Logger
FLUKE-1748/30/	Three-Phase Powe
INTL	Quality Logger

FLUKE-1742/15/ Three-Phase Power

Contact your local distributor for price and availability. fluke.com/findus



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Power Quality

Fluke Norma 6000 Series **Portable Power Analyzers**



Fluke Norma 6003+









The Fluke Norma 6000 Series Portable Wideband Precision Power Analyzers gives you more freedom than ever before to make high accuracy power measurements wherever you need. Designed for portability the lightweight, battery powered Fluke 6000 Series eliminates the need to carry large analyzers into the field, allowing you to make measurements directly at the load in nearly any environment. By measuring directly at the load, you can discover how the equipment operates under real-world conditions, with realworld variables, not just at a test bench or in the

- Measure three-phase power and DC output power at the same time (available in 3 or 4 channel), with voltage and current inputs on each channel
- Make mechanical torque and speed measurements using the included inputs and outputs of the Fluke 6003+ and 6004+
- 0.1% accuracy, 500 kHz bandwidth, 200 kS/ s sample rate so you can rely on the power conversion system measurements you take no matter what distortion may be present
- Take precision power measurements almost anywhere - highly portable, battery powered analyzer weighing only 3.5 kg and 9.3 cm depth with up to 10 hours of battery life
- View critical data in the field on the main display meter, including waveform, harmonics up to the 100th, vector and trend
- Ensure high common-mode rejection and allow flexible configurations according to measurement requirements using the electrically isolated channels
- User-adjustable measurement rate from 100 ms to 1 s with continuous logging via 32 GB of
- Easy in-field set up using the large 5.7" front LCD screen or a remote PC connection (USB or
- Online measuring, data download and analysis with included PC software (Fluke NormaView Software)
- Three-year warranty

	Norma 6003	Norma 6003+	Norma 6004	Norma 6004+
Number of channels for voltage/current	3/3	3/3	4/4	4/4
Motor speed/torque measurement	-	Yes	-	Yes
Basic accuracy		0.1	1%	
Channel-to-channel isolation		Ye	es	
Main Function		Meter, Scope, Harm	ionic, Phasor, Trend	
Measuring Parameters *Available in N6003+ and N6004+ only	Factor, Form Facto Distortion, Harmor Power, Reactive P Impedance, Electr	t, AC Component, Rec r, Fundamental Comp nic Content, Harmonic Power, Apparent Powe ic Energy, Charge/Dis Torque*, Mechanical	onent, Fundamental Factor for voltages a er, Power Factor, Phas scharge capacity (Ah),	Content, Harmonic and currents, Active se Shift, Efficiency, Frequency, Motor
Ingress Protection (IEC 60529)		IP	50	
Safety Compliance (IEC 61010-2-030)	CAT III 1000 V, CAT IV 600 V			
Color screen		14.48 cm (5.7 in), backlight, 4:3	
Lithium battery		10.8 V/5000	mAh, 54 Wh	
Communication Interface		USB/I	RS485	
PC Software		Fluke Norma\	/iew Software	
Storage Capacity		32	GB	

Recommended Accessories 80I-2010S 80I-2010S/3PK 2000 A AC/DC 2000 A AC/DC Current Clamp Current Clamp 3 pack BP291 U1500s Additional Battery Differential Probe



Included Accessories

Battery BP291, Power Supply Adapter (18V DC, CAT IV 600V Adapter), Power Line Cord, Soft Case, Mains Adapter Set, Test Lead Set, USB (mini B) Cable, RS-485/Synchrony Adapter (3.81 mm, black, 3 pin), Speed / Torque Adapter (3.81 mm, black, 6 pin), USB Flash Drive for PC SW and User Manual

3-Channel Models: Test leads, 1.5 m, 3× red, 3× black, 6× blue, Alligator clips, 3× Red, 3× Black, 6× Blue

4-Channel Models: Test Leads, 1.5 m, 4× Red, 4× Black, 8× Blue, Alligator Clips, 4× Red, 4× Black, 8× Blue

Ordering Inform	nation
NORMA 6003	3-Channel Portable Power Analyzer
NORMA 6003+	3-Channel Portable Power Analyzer with Speed/Torque Inputs
NORMA 6004	4-Channel Portable Power Analyzer
NORMA 6004+	4-Channel Portable Power Analyzer with Speed/Torque Inputs

Contact your local distributor for price and availability. fluke.com/findus

Fluke VR1710 Single Phase Voltage **Quality Recorder**





Voltage recording

Distortion measurement

Flicker measurement

Voltage transients

Specifications

Operating voltage

Number of events Dips/Interruptions

Time resolution

Frequency

channels Recording time

Transients

Frequency range

Safety Compliance (IEC 61010-2-030)

Voltage resolution Over-voltages

Min/Max/Avg RMS value

Harmonics measurement Flicker measurement

Number of recording

Easy-to-use solution for detecting and recording voltage quality problems

The Fluke VR1710 is a single-phase, plug-in voltage quality recorder that provides fast and easy recording of voltage trends, dropouts, harmonics and general power quality—including dips and surges—to help maintenance and facilities management personnel easily pinpoint the root cause of voltage problems. Voltage quality parameters including RMS average, transients, flicker, and harmonics up to the 32nd are recorded using a user-selected average period from 1 second to 20 minutes.

- Fast and easy recording of voltage trends, dropouts and power quality: Easily pinpoint the root cause of single-phase voltage problems
- Extremely easy to use: Plugs directly into the mains power socket and capture data
- Ouickly see what happened and when: Min. Max, average RMS values (1/4 cycle) with time stamp and transient display (>100 µs) with time
- Easily identify problems: Power quality or equipment related Flicker recording to EN 61000-4-15, individual harmonic and THD values with trends
- Includes PowerLog software: For quick download, analysis and automatic reporting
- Save time: Generate power quality reports automatically with pre-set templates

 $\label{lem:monitors} \mbox{Monitors and records supply voltage; measures RMS average, minimum and}$

maximum values, and checks whether the socket outlet is providing voltage

Measure frequency and harmonics: check whether the distorting loads (UPS

Capture those intermittent, momentary events that may be affecting your

equipment; the full waveform is captured with date, timestamp, and duration.

day to 339 days depending on average time from 1 second to 20 minutes

One-year warranty

systems, drives, etc.) are affecting your other equipment.

Quantify the affects of switching loads on lighting systems

70 V to 300 V 0.5% of range

IEC 61000-4-7 (up to 32nd)

50 Hz ±1 Hz and 60 Hz ±1 Hz

1 Phase to Neutral, 2 Phase/Neutral to Ground

IEC 61000-4-15

CAT II 300 V

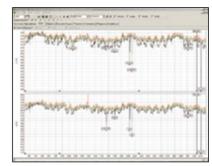
Resolution 0.12 V

175 000

Yes

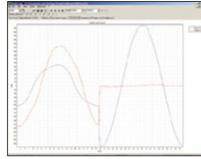
0.12 V

Yes



PowerLog Setup - Simple set up of internal clock, logging

PowerLog View - Data presentation showing RMS voltage and harmonic trends, actual transients, summary information and statistics in accordance with EN50160.



Actual transient display (> 100 μs) with time stamp – Quickly identify issues with included graphical software.

Included Accessories

USB Cable, PowerLog Software CD, Power Cord Adapter.

Ordering Information

FLK-VR1710

Voltage Quality

Contact your local distributor for price and availability. fluke.com/findus

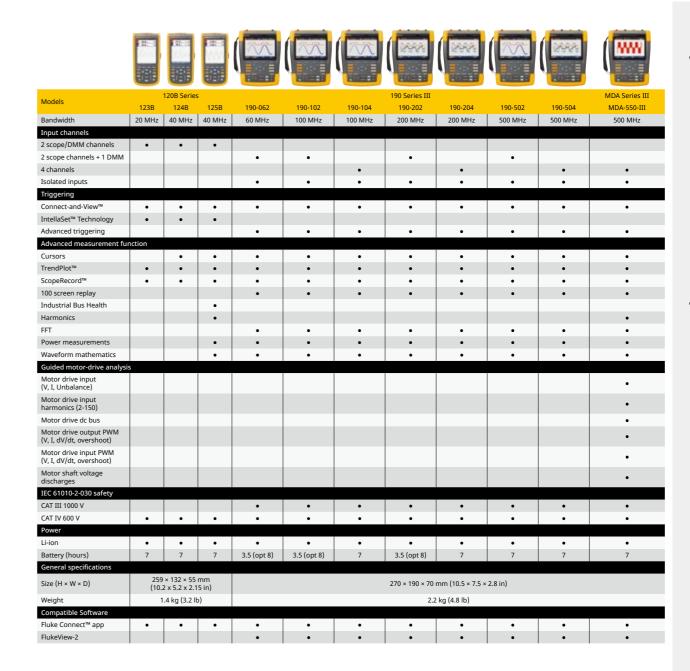


Power Quality

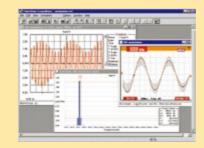




Portable Oscilloscope Selection Guide



FlukeView 2™ ScopeMeter® Software for Documenting, Archiving and Analyzing Waveforms



Portable

Oscilloscopes

ScopeMeter™ Portable Oscilloscopes take you into territory that standard bench oscilloscopes can't readily withstand — harsh, hazardous and dirty industrial environments. These hand-held

instruments combine the performance of a bench oscilloscope with a multimeter and paperless

maintaining industrial and electronic equipment

recorder for installing, commissioning and

out in the field.

Get more out of your ScopeMeter with FlukeView2 ScopeMeter SW90W software for Windows $^{\text{\tiny{TM}}}$

- Copy screen images into your reports and documentation
- Store instrument's screen copies on the PC, in color
- Capture and store waveform data from your ScopeMeter on your PC
- Record your current waveform online
- Create and archive waveform references for easy comparison
- Copy waveform data into your spreadsheet for detailed analysis
- Export data to another analysis program
- Use cursors for parameter measurement
- Add user text to instrument setups and send them to the instrument for operator reference and instructions





Fluke MDA-550 Series III Motor Drive **Analyzer**



Fluke MDA-550-III







Simplify complex motor-drive troubleshooting

The Fluke MDA-550 Motor Drive Analyzer simplifies the troubleshooting process for variable frequency drives. Onscreen step-by-step guided measurements to show you where to make voltage and current connections. Preset measurement profiles ensure you capture all the data you need for each critical motor-drive section, from the input to the output, the DC bus, and the

- Measure key motor-drive parameters including voltage, current, DC Bus voltage level and AC ripple, voltage and current unbalance and harmonics, voltage modulation, and motor shaft voltage discharges
- Perform extended harmonics measurements to identify the effects of low and high order harmonics on your electrical power system
- Conduct guided measurements for motor-drive input, DC bus, drive output, motor input and shaft measurements with graphical step-by-step voltage and current connection diagrams
- · Preset measurement profiles collect data based on the chosen test procedure and reduce the need for complex configuration
- Capture additional parameters with full 500 MHz oscilloscope, meter and recording capability
- USB & WIFI connectivity for quick and easy data
- Three-year warranty





fluke.com/sea.mda

Key Features	
Motor Drive Input	Test Points
Phase - Phase	V-A-Hz
Phase - Ground	V pk, Vmax, Vmin, V pk-to-pk, Crest factor
Voltage Unbalance	V ac+dc unbalance, V pk-to-pk
Current Unbalance	A ac+dc unbalance, A pk-to-pk
Motor Drive DC Bus	
DC	V dc, V pk-to-pk, V pk max
Ripple	V ac, V pk-to-pk, Hz
Motor Drive Output	
Voltage and Current (filtered)	V-A-Hz, V PWM, V/Hz
Voltage Unbalance	V PWM unbalance, V pk-to-pk
Current Unbalance	A ac+dc unbalance, A pk-to-pk
Voltage Modulation	Phase-phase, Phase-ground, Phase-DC+, Phase-DC- : V pwm, V pk-to-pk, Hz, V/Hz, Delta V, Delta V/s, Risetime peak, Overshoo
Motor Input	
Voltage and Current (filtered)	V-A-Hz, V PWM, V pk, A ac+dc, A pk, V/Hz, Crest factor
Voltage Unbalance	V PWM unbalance, V pk-to-pk
Current Unbalance	A ac+dc unbalance, A pk-to-pk
Voltage Modulation	Phase-phase, Phase-ground: V PWM, V pk-to-pk, Hz, V/Hz, Delta V, Delta V/s, Risetime peak, Overshoo
Motor Shaft	Shaft voltage events: V pk-to-pk, Delta V, Rise/fall time, Delta V/s, Events/s
Motor Drive Input Output and Motor Input	Voltage and Current Harmonics: V and A fundamental, Hz fundamental, %THD, %THD/TDD

Included Accessories

BP291 Li-Ion Battery Pack, BC190 Charger/Power Adapter, 3x VPS421 100:1 High Voltage Probes with Alligator Clips, VPS410-II-R 10:1 500 MHz Voltage Probe, 3x i400s AC Current Clamp, 1x SVS-500 Shaft Voltage Set (3x brush, Probe Holder, Two-Piece Extension Rod and Magnetic Base), Large Size, Protective Carrying Case with Rollers (C437-II), FlukeView-2 PC Software (Full Version) and WiFi Dongle

Ordering Information

FLUKE-MDA-550-III

Motor Drive Analyzer 4CH CLR

Contact your local distributor for price and availability. fluke.com/findus

Fluke ScopeMeter® 190 Series III Portable Oscilloscopes



Fluke 190-504 Series III



Fluke 190-204

Fluke ScopeMeter 190 Series III Portable Oscilloscopes are high-performance scopes built for harsh industrial environments. These high-performance portable oscilloscopes come with 2 or 4 independently insulated input channels, an IP51 dust and drip proof rating and a CAT III 1000 V/CAT IV 600 V safety rating. Choose from 500 MHz, 200 MHz, 100 MHz or 60 MHz bandwidth models. Now plant maintenance engineers can take a 2- or 4-channel scope into the harsh world of industrial electronics.

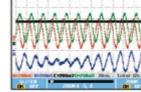
- Up to four independent floating isolated inputs, up to 1000V
- Up to 5 GS/s real time sampling (depending on model and channels used)
- Deep memory: 10 000 points per trace waveform
- CAT III 1000 V/CAT IV 600 V safety rated instrument for industrial environments
- Up to seven hours of battery operation using BP291
- Security slot: lock down oscilloscope with Kensington™ lock while unattended
- IP51 rating, dust and drip-proof
- Connect-and-View[™] triggering for intelligent, automatic triggering on fast, slow and even complex
- Automatic capture and REPLAY of 100 screens
- ScopeRecord™ Roll mode gives 30 000 points per input channel for low frequency signal analysis
- USB & WIFI connectivity for quick & easy data
- Three-year warranty











Use the 27000 points memory of

17.000					9.21	446
lend in			mini			
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+15.80	-			1.3		
					**	
117-117-010	***		805.0		C.	

Cursors and zoom features of the Fluke 190 Series III help you to analyse the

Specifications	190-062	190-102	190-202	190-502	190-104	190-204	190-504
Bandwidth (MHz)	60	100	200	500	100	200	500
Scope Inputs	2	2	2	2	4	4	4
Dedicated DMM	1	1	1	1	-	-	-
Dual Input Trendplot™	•	•	•	•	-	-	-
Four Input Trendplot™	-	-	-	-	•	•	•
ScopeRecord Mode	•	•	•	•	•	•	•
Automatic Capture & Replay Mode	•	•	•	•	•	•	•
Cursors	•	•	•	•	•	•	•
Zoom	•	•	•	•	•	•	•
Bus Health Test Mode	-	-	-	-	-	-	-
Advanced Power Measurements	•	•	•	•	•	•	•
IEC 61010-2-030 CAT III Safety Rating	1000 V	1000 V	1000 V	1000 V	1000 V	1000 V	1000 V
IEC 61010-2-030 CAT IV Safety Rating	600 V	600 V	600 V	600 V	600 V	600 V	600 V
Battery	4 hr Li-ion (8 hr Opt)	4 hr Li-ion (8 hr Opt)	7 hr Li-ion				
Optical RS-232	-	-	-	-	-	-	-
Isolated USB	•	•	•	•	•	•	•
Isolated USB Memory	•	•	•	•	•	•	•

Included Accessories

Fluke 190 4-Channel Models: VPS410-II (200/500 MHz models) or VPS421 (60/100 MHz models) Voltage Probes, Double Capacity BP291 Liion Battery, BC190 Battery Charger, Hanging Strap, Adjustable Hand Strap User Manual on CD-ROM, FlukeView™ Demo Package and USB Interface Cable for PC connectivity.

Fluke 190 2-Channel Models: VPS410-II (200/500 MHz models) or VPS421 (60/100 MHz models) Voltage Probes, 1 blue), Single Capacity BP290 Li-ion Battery, TL175 Test Leads.

Fluke /S (SCC-290 Kit) Models: FlukeView™ ScopeMeter™ Software and C290 Hard Carrying Case.

Ordering Information

FLUKE-ScopeMeter 60MHz, 2 Channel 190-062 FLUKE-ScopeMeter 60MHz, 2 Channel with SCC-290 190-062/S

ScopeMeter 100MHz, FLUKE-2 Channel 190-102

FLUKE-ScopeMeter 100MHz. 190-102/S 2 Channel with SCC-290 Kit

FLUKE-ScopeMeter 100MHz, 190-104 4 Channel

FLUKE-ScopeMeter 100MHz, 4 Channel with SCC-190-104/S

FLUKE-ScopeMeter 200MHz, 190-202

ScopeMeter 200MHz, FLUKE-2 Channel with SCC-190-202/S 290 Kit

FLUKE-ScopeMeter 200MHz. 190-204

FLUKE-ScopeMeter 200MHz, 190-204/S 4 Channel with SCC-

FLUKE-ScopeMeter 500MHz, 190-502

FLUKE-ScopeMeter 500MHz, 190-502/S 2 Channel with SCC-

ScopeMeter® Portable Oscilloscopes

Contact your local distributor for price and availability. fluke.com/findus



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Fluke ScopeMeter® 120B Series Industrial Hand-Held Oscilloscopes









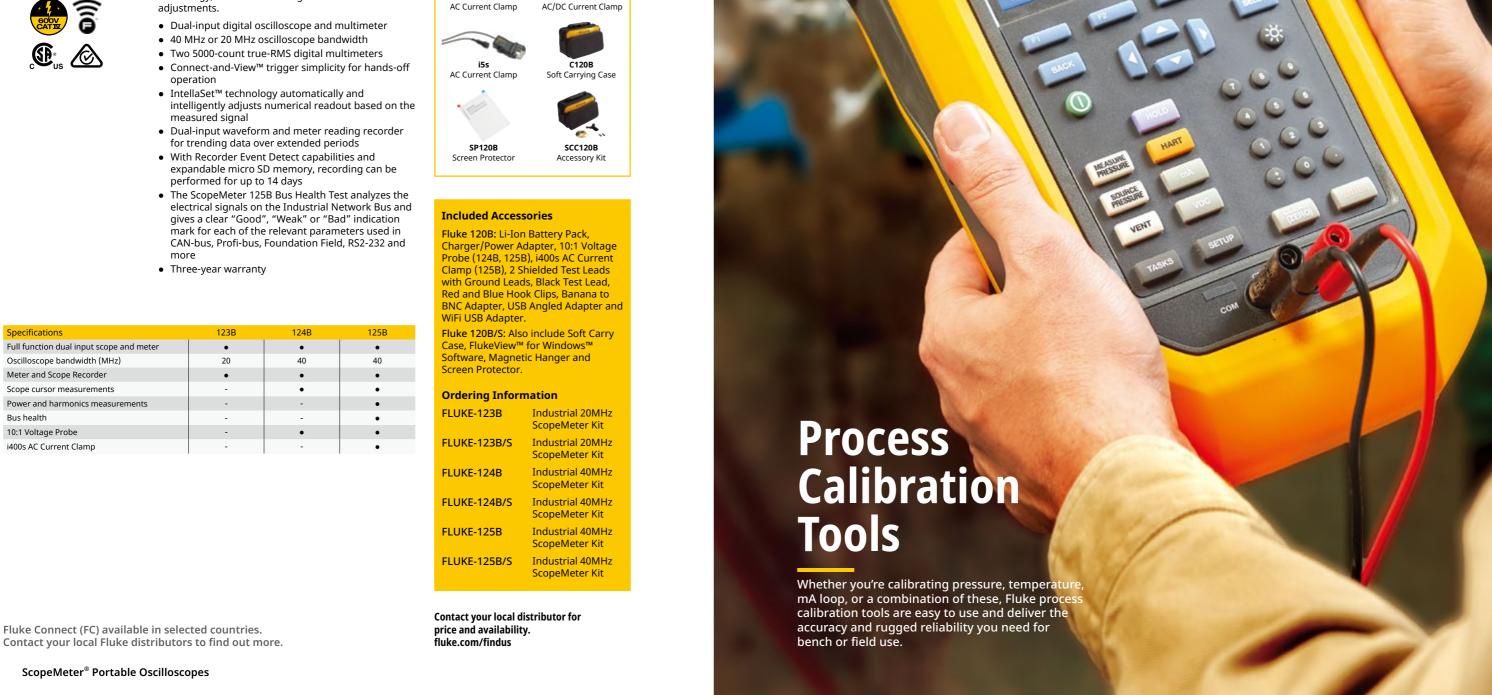
Simplified testing, more insight and faster electro-mechanical troubleshooting

The compact ScopeMeter 120B Series, is the rugged oscilloscope solution for industrial electrical and electro-mechanical equipment troubleshooting and maintenance applications. It's a truly integrated test tool, with oscilloscope, multimeter and highspeed recorder in one easy-to-use instrument. The ScopeMeter 120B Series also integrates with Fluke Connect[™] mobile app and FlukeView[™] for ScopeMeter software to enable further collaboration, data analysis and archiving of critical test information.

The 120B Series Industrial ScopeMeter Test Tools include innovative functions designed to help technicians troubleshoot faster and get the answers they need to keep their systems up and running. Display Waveforms with Connect-and-View™ trigger and setup technology, and automatically view related numerical measurements using Fluke IntellaSet™ technology, all without making manual measurement

Specifications	123B	124B	125B
Full function dual input scope and meter	•	•	•
Oscilloscope bandwidth (MHz)	20	40	40
Meter and Scope Recorder	•	•	•
Scope cursor measurements	-	•	•
Power and harmonics measurements	-	-	•
Bus health	-	-	•
10:1 Voltage Probe	-	•	•
i400s AC Current Clamp	-	-	•





100.000





Process Calibration Solutions

Get more information on Fluke Process Calibration solutions at www.fluke.com/en-sg/products/calibration-tools Based on you. Built by Fluke.

* Diagram is not intended to be an exact representation. Diagram components are not to scale and are for illustration purposes only.

Bench Pressure **Bench Temperature Sources Process Calibrators**

Maintenance Manager

Focus: Maintaining plant uptime and maintenance efficiency

What issues do you face?

- Ensuring continuous uptime
- Maintaining good ROI for equipment
- Compliance
- Process improvement

Fluke solutions:

- Temperature
- Pressure
- Standards
- Process tools
- Software

Quality Manager

Focus: Maintaining and documenting product quality

What issues do you face?

- Complying with quality regulations
- Maintaining documentation of processes

Fluke solutions:

- Temperature
- Pressure
- Standards
- A Process tools
- Software

Field Calibration Technician Instrumentation Technician

Focus: Calibrating and verifying measurement devices

What issues do you face?

- Making accurate measurements
- Documenting procedures
- Increasing throughput

Fluke solutions:

- Temperature
- Pressure
- Standards
- Process tools
- Software
- Field Metrology Wells

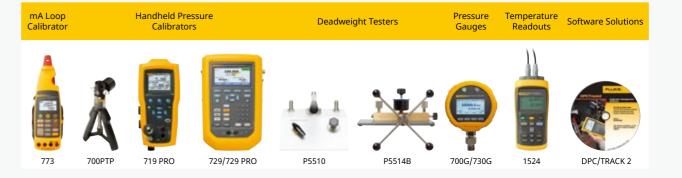
Focus: Maintaining and verifying instrumentation throughout the plant

What issues do you face?

- Monitor and maintain sensors and transmissions
- Accurate measurements

Fluke solutions:

- Temperature
- Pressure
- Standards
- A Process tools
- Software
- Field Metrology Wells





Working in a process environment such as pharmaceutical manufacturing, refining, or other industrial areas can be challenging. Whether you're working at a bench, out in the plant, or in the field, you need accurate tools that you can count

Finding the right tools for the specific challenges you face every day is important, so we've provided an 'at-a-glance' guide to the wide range of multifunction, mA loop, pressure and temperature calibrators that we carry.



mA Loop Calibration

Loop calibrators are essential tools for working with 4-20 mA current loops. Fluke loop calibrators provide mA sourcing, simulation and measurement, readouts in both mA and % of span, 24 V loop supply, simple operation, and accuracy you can count on. Fluke offers the widest variety of mA calibration and test tools in the industry to address virtually all types of mA loop testing.

See pages 72



Electrical and Multifunction Calibration

Fluke Multifunction Calibration Tools are designed to calibrate almost anything. These calibration tools source and measure almost all process parameters, and documenting models even document the results.

Fluke offers a broad range of field and bench calibrators to source, simulate and measure pressure, temperature and electrical signals, to help you verify and adjust your equipment for almost any process measurement or control parameter.

See pages 72



Temperature Calibration

Fluke Temperature Calibrators simulate process sensors for testing temperature instrumentation. Specifically designed for the field, these lightweight compact tools are EMI tolerant and offer an easy-to-use single push button interface. When paired with a $temperature\ sensor\ they\ can\ take\ high\ accuracy\ temperature\ measurements\ to\ verify$ process temperatures and ensure the highest product quality and safety.

Fluke offers a variety of bench and field temperature calibrators designed for your unique calibration and testing requirements.

See pages 72



Pressure Calibration

Instrumentation is found in virtually every process plant. Periodic calibration of these instruments is required to keep plants operating efficiently and safely. Fluke offers a wide range of pressure calibration tools with precision pressure measurement from 15 psi/1 bar to 10000 psi/690 bar boasting 0.02% full-scale accuracy to help you quickly and reliably calibrate your pressure instruments.

You'll find everything from simple test gauges to calibrators with built in electric test pumps. All are easy to use and feature rugged and reliable construction and an industry best 3-year warranty.

See pages 72

Process Calibration Tools Selection Guide

	Documenting Process Calibators	Multifunction Process Calibrators	on Process ators	Temp	Temperature Calibrators	itors		Pres	Pressure Calibrators	ors		Automatic Pressure Calibrator			Loop Calibrators	brators			Process- Meters™
	754 / 753	725	726	724	714B	712B	718 / 718Ex	717	719	719Pro	721	729	715	705	707	709 / 709H / 710	177	772 / 773	7895 / 787B
Voltage DC	300 V	30 V	300	30 N	75 mV					30 V	30 V	30 V	10 V	28 V	28 V	30.V		- / 30 V	1000 V
Voltage AC (True RMS)	300 V																		1000 V
Resistance	10 kΩ	3200 D	4000 D	3200 D		4000 Ω													40 MD
Current DC	110 mA	24 mA	24 mA	24 mA	24 mA	24 mA	24 mA	24 mA	24 mA	24 mA	24 mA	24 mA	24 mA	24 mA	24 mA	24 mA	100 mA	100 mA	30 mA, 1 A
Current AC																			•
Frequency	50 kHz	10 kHz	15 kHz																20 kHz
Pressure	-	-	5				-12 to 300 psi² (4 ranges)	-12 to 10,000 psi² (10 ranges)	-12 to 100 psi² (2 ranges)	-12 to 300 psi² (3 ranges)	input 1: -0.97 bar to 2,48 bar input 2: -0.83 bar to 345 bar ³	-12 to 300 psi² (3 ranges)							
Temperature										-50° C to 15	-50° C to 150° C" (-58° F to 302° F*)	o 302° F4)							
Temperature: RTD types	80	7	∞	7		13													
TC types	13	12	12	12	17														
Source/Simulate																			
Voltage DC	15 V	10 V	20 V	10 V	75 mV							30 V	10 V					- / 10 V	
Resistance	10 KΩ	3200 D	4000 Ω	3200Ω		4000 Ω													
mA DC/% scale	22 mA	24 mA	24 mA						•	•		24 mA	24 mA	24 mA	24 mA	•		24 mA	24 mA
mA source; auto step, auto ramp	•	•	•									•	•	•	•			•	•
Frequency	50 kHz	10 kHz	15 kHz																
Temperature: RTD types	80	7	∞	7		13													
Temperature: TC types	13	10	10	10	17														
Record																			
Min/Max	•						•	•	•	•	•	•							•
Hold							•	•	•								•	•	•
As Found/ As Left results	•											•							
Log data	•											•				•/-			
Upload data to PC	•											•				•			•
Remote operation		-/•	•									•							
Features																			
Loop supply	26 V	24V / 12 V	24 V	24 V			24 V / -	24 V	24 V	24 V	24 V	24 V	24 V	24 V	24 V	24 V		24 V	24 V/-
HART" communication	754 only											•				•,			
Integrated hand pressure pump							•												
Electric Pump									•	•	•	•							
Intrinsically safe (ATEX)							718 Ex				721Ex								
Ttraceable certification	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•			
Warranty in years	ю	т	т	ю	м	ю	е	м	е	е	м	м	м	ю	м	ю	ю	m	ю

Fluke 787B and 789 ProcessMeter™





Fluke 787B



Double the troubleshooting power so you can do more, while carrying a lot less

The Fluke 787B and 789 ProcessMeter™ double troubleshooting capabilities by combining the power of a safety-rated digital multimeter and mA loop calibrator into a single, compact test tool. Whether you only need to source and simulate mA, or need a 24 V loop power supply, Fluke has a ProcessMeter™ test tool designed specifically to meet your needs.

Fluke 787B and 789 key features

- 20 mA DC current source/measure/simulate
- Simultaneous mA and % of scale readout
- IEC 61010-2-030: CAT III 1000 V, CAT IV 600 V
- Fluke Connect™ compatibility for wireless data logging (with ir3000FC module)
- Precision 1000 V, 440 mA true-RMS digital
- Frequency measurement to 20 kHz
- Min/Max/Average/Hold/Relative modes
- Diode test and continuity beeper
- Manual step mA output (100%, 25%, Coarse, Fine) plus Auto Step and Auto Ramp
- Externally accessible battery for easy battery
- Three-year warranty

Fluke 789 additional features

- 24 V loop power supply
- HART mode setting with loop power (adds 250 ohm resistor)

Measurement Function	Range and Resolution	Best Accuracy (% of reading + LSD)
V DC	400.0 mV, 4.00 V, 40.00 V, 400.0 V, 1000 V	0.1% + 1
V AC (True-rms)	400.0 mV, 4.00 V, 40.00 V, 400.0 V, 1000 V	0.7% + 2
mA DC	30.00 mA	0.05% + 2
A DC	1.00 A (0.44 A continuous)	0.2% + 2
A AC	1.00 A (0.44 A continuous)	1% + 2
Resistance	400.0 Ω, 4.00 kΩ, 40.00 kΩ, 400.0 kΩ, 4.0 MΩ, 40 MΩ	0.2% + 1
Frequency (0.5 Hz to 20 kHz)	199.99 Hz, 1999.9 Hz, 19.99 kHz	0.005% + 1
Diode Test	2.00 V (shows diode voltage drop)	2% + 1
Continuity	Beeps for resistance < approx. 100 ohms	

Output Function	Range and resolution	Drive capability	Accuracy
DC Current Output (Internal Battery Operation)	0.00 to 20.00 mA or 4.00 to 20.00 mA, (selectable at power-up) Over-range to 24.00 mA	24 V compliance or, 1200 ohms, @ 20 mA	0.05%
DC Current Simulate (Ext. 15 V to 48 V loop supply)	0.00 to 20.00 mA or 4.00 to 20.00 mA, (selectable at power-up) Over-range to 24.00 mA	1000 ohms, @ 20 mA	0.05%
24 V Loop Supply*	Minimum 24 V	250 ohms @ 20 mA	> 24 V
Current Adjustment Modes	Manual: Coarse, Fine, 25% and 100% step Automatic: Slow Ramp, Fast Ramp, 25% step		

^{*24} V Loop Supply available on 789 ProcessMeter™ only.

Recommended Accessories ir3000 FC **TPAK** ToolPak Meter ir3000 Connector Hanging Kit 80T-150UA TL220 Universal Temperature Probe SureGrip™ Industria Test Lead Set 80PK-8 C37XT Pipe Clamp EVA Foam Hard Case Temperature Probe **Recommended Kits** Bundle and Save Fluke Connect™ 789 ProcessMeter™ and Temperature Kit

TL71 Test Lead Set, AC72 Alligator Clips, Four AA Alkaline Batteries, User Manual and Quick Reference Guide. **Ordering Information** FLUKE-787B ProcessMeter™ FLUKE-789 ProcessMeter™ FLUKE-789/ Fluke Connect 789 T3000FC ProcessMeter™ & Temperature Kit Fluke Connect™ FLUKE-IR3000 **Infrared Connector** FVF-SC2 FlukeView™ Forms

Software (incl.

Interface Cable)

Included Accessories

Contact your local distributor for price and availability. fluke.com/findus

Fluke 771, 772 and 773 mA Process Clamp Meters



mA measurement

mA measurement

mA source

mA simulate

Voltage source

Voltage measure



771

772 773

771, 772, 773

772 and 773

772 and 773

772 and 773

773

773

Battery

Weight

Operating

temperature

Ingress Protection (IEC

Working hours

Size (H×W×L)



Don't break the loop on 4-20 mA signal measurements and save time with the Fluke 771, 772 and 773 Milliamp Process Clamp

Three-year warranty, (one-year provided on mA clamp assembly and cable).

Use the Fluke 772 and 773 to:

- Source 4-20 mA signals for testing control system I/O or I/Ps
- Simulate 4-20 mA signals for testing control system I/O
- Measure 4-20 mA signals with in-circuit measurement
- Power a transmitter with the 24 V loop power supply
- Automatically ramp and step change the 4-20 mA output for remote testing

Use the Fluke 773 to:

power 24

source sim

0 to 20.99 mA

0 to 24.00 mA

0 to 24 00 mA

0 to 10.00 V DC

0 to 30.00 V DC

Two 1.5 V, Alkaline, IEC LR6

59 mm × 38 mm × 212 mm

-10° C to 50°C (14° F to 122° F)

(2.32 in × 1.5 in × 8.35 in)

40 hours typical

260 a (9.17 oz)

21.0 mA to 100.0 mA

source

- Measure DC voltage to verify 24 V power supplies or voltage I/O signals
- Source DC voltage to test voltage input
- Scaled mA output signal enables a logging DMM (289) to record 4-20 mA signal without breaking the loop
- mA in/out: simultaneously source a mA signal while measuring a mA signal with the

measure

0.2% + 5 counts

1% + 5 counts

0.2% + 2 counts

Four 1.5 V, Alkaline, IEC LR6

43.7 mm × 70 mm × 246.2 mm

(2.87 in × 5.75 in × 11.62 in)

410 g (14.46 oz)

12 hours @ 12 mA source into 500 Ω

in/ou

Measured by clamp

Measured in series

with test jacks Maximum mA drive:

24 mA into 1000 Maximum voltage

2 mA maximum

drive current

50 V DC

Recommended Accessories



Test Lead Set



Fluke 771, 772 and 773 mA Process Clamp Meters pay for themselves

- The more you use them the more money you save
- Measuring 4-20 mA signals (five) times without operator intervention can pay for the 771
- Saving a trip back to shop to get a loop calibrator can pay for the price difference of the 772
- Saving a trip back to the shop for a voltage test source can pay for the price difference of the 773



Included Accessories

Fluke 771: Soft Carrying Case, User

Fluke 772/773: Four AA Alkaline Batteries (installed), Soft Carrying Case, TL75 Test Leads, AC 72 Detachable Clip, TL940 Mini-hook Test Leads, Instruction Sheet, Hanging Tool with Hook and Loop Strap.

Ordering Information

FLUKE-771	Milliamp Proc Clamp Meter
FLUKE-772	Milliamp Proc Clamp Meter

FLUKE-773

Milliamp Process Clamp Meter

Contact your local distributor for price and availability. fluke.com/findus



Fluke Connect (FC) available in selected countries. Contact your local Fluke distributors to find out more.

Process Calibration Tools Loop Calibration Loop Calibration Process Calibration Tools

Fluke 709, 709H and 710 **Precision Loop Calibrators**



Fluke 710









HART is a registered trade mark of the HART Communications Foundation.

The Fluke 709 and 709H mA Loop Calibrators and 710 Valve Tester are designed to save time and produce high-quality results. These calibrators are built around a user-friendly interface with a Quick-Set rotary encoder knob. This tool reduces the time it takes to measure or source current, and power up a loop. The protective holster easily fits into a technician's hand and the large backlit display is easy to read, even in dark, cramped worked areas.

- Best-in-class accuracy at 0.01% reading
- HART™ Communications (709H, 710) to communicate with and test HART smart instruments
- Compact rugged design
- Intuitive user interface with quick-set knob for fast setup, easy to use
- 24 V DC loop power with mA measure mode
- Resolution of 1 µA on mA ranges
- Built in selectable 250 Ω resistor for HART
- Simple two wire connection for all measurements
- Valve test (source and simulate defined mA values with % keys for valve testing)
- Upload logged mA measurements and HART device data using the 709H with optional 709H/TRACK
- Three-year warranty

HART™ Communication

The Fluke 709H offers a built-in HART modem to provide the communication capability to perform the following commands:

- Read message, tag, descriptor and calibration date
- Read sensor PV information and PV output
- Read long tag
- Write PV ranges (upper and lower)
- Enter/exit fixed current mode and set zero offset
- Trim DAC zero (mA output 4 mA) and trim DAC gain (mA output 20 mA)

Valve Testing

The Fluke 710 has powerful valve-testing functions including preconfigured valve signature test, speed test, step test, manual test and bump/partial stroke test. The instrument comes with ValveTrack™ desktop software where you can upload valve test results, logged measurements and HART device configurations captured in the field.

Key Features	709	709H	710
mA measure (range and accuracy)	0-24 mA @ 0.01%	0-24 mA @ 0.01%	0-24 mA @ 0.01%
mA source/simulate	0-24 mA @ 0.01%	0-24 mA @ 0.01%	0-24 mA @ 0.01%
DC volts measure	0-30 V @ 0.01%	0-30 V @ 0.01%	0-30 V @ 0.01%
DC volts source			
24 V loop power	•	•	•
Auto step/ramp	•	•	•
Documenting and log data		Option	•
HART communication		•	•
Valve testing	Analog	Analog	Analog/HART

Recommended Accessories 709H TRACK Communication TP220 Industrial Test Probes TL220 SureGrip™ Industrial Test Lead Set Test Lead Set See page 152

Included Accessories

709: AC175 Alligator Clip Set, TL75 Test Leads, Soft Case, six AAA Batteries (installed), Product Manual (CD), Quick Reference Guide, Safety Information.

709H: 754-8016 Alligator Clip Set, 75X-8014 Stackable Lead Set, TP220-4201 Test Probes, AC280-5001 SureGrip Hook Clips, Soft Case, six AAA Batteries installed), Product Manual (CD), Quick Reference Guide, Safety Information.

710: Stackable test lead set, Extended tooth alligator clip set, TP220 test probes. AC280 SureGrip™ hook clips. Lemo to USB cable ValveTrack™ software (free download), Softcase, Six AAA batteries (installed).

Note: All models include Traceable Calibration Certificate.

Ordering Information

FLUKE-709	Precision Loop Calibrator
FLUKE-709H	Precision Loop Calibrator with HART™
FLUKE-709H/ TRACK	HART™ Data- Logging Communications Software
FLUKE-710	Valve Tester

Contact your local distributor for price and availability. fluke.com/findus

Fluke 715, 707, and 705 Loop Calibrators

Complete family of Volt/mA calibrators

500000m

Fluke 715

Fluke 715 Volt/mA Calibrator

- Source voltage to 200 mV or 20 V
- Measure loop current (0 to 20 mA, 4-20 mA) signals with 0.01% accuracy and 1 µA resolution
- · Measure voltage output process signals from PLCs,
- Source or simulate 4-20 mA loop current
- 24 V loop supply with simultaneous current measurement
- Ramp and Step Ramp output functions
- Three-year warranty

Fluke 707 and 705

- Innovative output adjustment dial on 707 provides 1 μA and 100 μA resolution and one-hand operation
- Large display and simple interface for ease of use
- Simultaneous mA and % readout for quick, easy interpretation of readings
- mA accuracy of 0.01% on the Fluke 707 and 0.02% on the 705
- HART mode on 707 connects 250 ohm resistor in series with 24 V loop for compatibility with HART™ communicators
- Push button 25% steps for fast, easy linearity checks
- "Span Check" for fast confirmation of zero and span
- Selectable slow and fast linear step ramp provide ramping outputs for valve slewing, remote testing and loop functional tests
- 24 V internal loop supply, so you can power and read a transmitter at the same time without carrying a DMM
- 0 to 20 mA or 4-20 mA default start up modes
- Three-year warranty



12.753 54

	705/707	715
Voltage measurement		
Range	0 V to 28 V	0 mV to 200 mV / 0 V to 25 V
Resolution	1 mV	10 μV / 1 mV
Accuracy	705: 0.02% Rdg + 1 LSD 707: 0.01% Rdg + 2 LSD	0.01% Rdg + 2 LSD
Current measurement		
Range	0 mA to 24 mA	0 mA to 24 mA
Resolution	0.001 mA	0.001 mA
Accuracy	705: 0.02% Rdg + 2 LSD 707: 0.01% Rdg + 2 LSD	0.01% + 2 LSD
Current sourcing		
Range	0 mA to 20 mA or 4 mA to 20 mA $$	0 mA to 20 mA or 4 mA to 20 mA
Accuracy	705: 0.02% Rdg + 2 LSD 707: 0.01% Rdg + 2 LSD	0.01% Rdg + 2 LSD
Drive capability	705: 1000 Ω @ 24 mA 707: 1200 Ω @ 24 mA	1000 Ω @ 24 mA
Loop power while measuring mA	24	V
Display current and % of span	Yes	mA or %
Auto step, auto ramp	Ye	25
Span Check	Ye	es
Battery life	18 hours typical, at 1	2 mA current source
Voltage sourcing	-	0 mV to 200 mV or 0 V to 20 V





Included Accessories

Fluke 705/707: Test Leads, AC175 Alligator Clips, Single 9V Alkaline Battery, Instruction Sheet, Traceable Calibration Certificate.

Fluke 715: Yellow Holster (H80M excl. TPAK), Test Leads and AC175 Alligator Clips, Single 9V Alkaline Battery, Instruction Sheet, Traceable Calibration Certificate.

Ordering Information

FLUKE-705	Loop Calibrator
FLUKE-707	Loop Calibrator
FLUKE-715	Volt/mA Calibrator

Contact your local distributor for price and availability. fluke.com/findus



120 **Process Calibration Tools Loop Calibration Loop Calibration Process Calibration Tools**

Fluke 725 and 726 Multifunction **Process Calibrators**









More calibration power!

- Two separate channels; measure, source and view process signals simultaneously
- Measure volts, mA, RTDs, thermocouples, frequency, and resistance to test sensors and transmitters
- Source/simulate volts, mA, thermocouples, RTDs, frequency, and pressure to calibrate transmitters
- Measure pressure using any of 50 Fluke 750Pxx Pressure
- Source mA with simultaneous pressure measurement to conduct valve and I/P tests
- Perform fast linearity tests with auto step and
- Power transmitters during test using 24 V loop supply and simultaneous mA measurement
- Store frequently-used test setups for later use
- Three-year warranty

726 additional features:

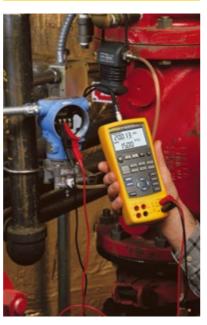
- More precise measurement and calibration source performance, accuracies of 0.01%
- Transmitter error % calculation
- Memory storage for up to 8 calibration results
- Frequency totalizer and frequency pulse train source
- HART mode inserts 250 ohm resistor in mA measure and source for compatibility with HART instrumentation
- Integrated pressure switch test
- Custom RTD curves, add calibration constants for certified RTD probes for enhanced temperature measurement

Function or Source	Range or Type	Resolution	Accuracy	Notes
Voltage	0 to 100 mV 725: 0 to 10V (source) 0 to 20V (source) 725/726: 0 to 30V (measure)	0.01 mV 0.001 V 0.001 V 0.001 V	0.01% 0.02% Rdg + 2 LSD	Max load, 1 mA
mA	0 to 24	0.001 mA	0.01%; 0.02% Rdg +2 LSD	Max load, 725/726: 1000 Ω
mV (TC terminals)	-10.00 mV to +75.00 mV	0.01 mV	0.01% 0.02% of range + 1 LSD	
Ohms	15 Ω to 3200 Ω 5 Ω to 4000 Ω	0.01 Ω to 0.1 Ω	0.10 Ω to 1.0 Ω 0.01%	
Hz - CPM	2.0 to 1000 CPM 1 to 1000 Hz 1.0 to 10.0 kHz 10.0 to 15.0 kHz	0.1 CPM 1 Hz 0.1 kHz 0.1 kHz	±0.05% ±0.05% ±0.25% ± 0.05%	Source; 5 V p-p 1 V - 20 V p-p squarewave, -0.1 V offset
Loop Supply	725/726: 24 V DC	N/A	10%	
T/C	J, K, T, E, L, N, U, XK	0.1°C	to 0.7°C to 0.2°C	
T/C	B, R, S, BP	1°C	to 1.7°C to 1.2°C	
RTDs	Cu (10), Ni 120 (672) Pt 100, 200, 500, 1000 (385) Pt 100 (3916), Pt 100 (3926)	0.01°C	to 0.15°C	

Simultaneous function capability	Channel A	Channel B
24.00 mA DC	M	M or S
24.00 mA DC with 24 V loop supply	M	_
100.00 mV DC	_	M or S
30.00 V DC measure	М	_
20.00 V DC measure; 10.00 V DC source; 20.00 V DC source	_	M or S
15 to 3200 Ohms (725); 5 to 4000 Ohms (726)	-	M or S
Thermocouple J, K, T, E, R, S, B, M, L, U, N, XK, BP	_	M or S
RTD Cu 10 , Ni120; Pt100 (392); Pt100 (JIS); Pt100, 200, 500, 1000 (385), XK and BP	_	M or S
Pressure (requires Fluke 750PXX Modules)	M	M used as S
Frequency; 10 kHz; (15 kHz)	-	M or S

M = Measure, S = Source/Simulate
Unique 726 features are in bold





Included Accessories

TL75 Test Lead Set (TL75), AC70A Test Clip Set (725), AC72 Test Clip Set 726), Stackable Test Lead Set, four AA Batteries, Traceable Calibration Certificate.

Ordering Information

Multifunction FLUKE-725 Process Calibrator FLUKE-726 Precision Multifunction

Process Calibrator

Contact your local distributor for price and availability. fluke.com/findus

Fluke 750 Series Documenting Process **Calibrators**



Fluke 754



HART is a registered trade mark of the HART Communications Foundation Whether you're calibrating instruments, troubleshooting a problem or running routine maintenance, Fluke's 753 and 754 Series Process Calibrators can help you get the job done faster. They do so many different tasks, so quickly and so well and they are the only process calibrators you need to carry.

- Measure volts, mA, RTDs, thermocouples, frequency, and ohms to test sensors, transmitters etc.
- Source/simulate volts, mA, thermocouples, RTDs, frequency, ohms, and pressure to calibrate transmitters
- Power transmitters during test using loop supply with simultaneous mA measurement
- Measure pressure using any of Fluke's 50 pressure modules
- Measure and source simultaneously with one compact, rugged, reliable tool
- Create and run automated as-found/as-left procedures to satisfy quality programs or regulations and record and document results.
- Advanced features like autostep, custom units, user entered values during test, one-point and two-point switch testing, square root DP flow testing, programmable measurement delay and more
- \bullet Control the temperature of selected HART $\!^{\text{\tiny{TM}}}$ Scientific Dry Blocks
- Handle fast pulsed RTD transmitters and PLCs in RTD source mode with 1 ms response time
- Three-year warranty

Fluke 753: A complete Documenting

Calibrator

The Fluke 753 is a complete multifunction documenting calibrator. It includes a PC interface that lets you load procedures, lists and instructions created with software or unload data for printing, archiving, and analysis. The 753 can hold a full week of calibrations and procedures.

Fluke 754: Get HART-ability™

The Fluke 754 offers all of the capabilities of the 753, plus the ability to calibrate, maintain and troubleshoot HART instrumentation. Integrated HART communication functions permit you to monitor, control and calibrate HART instrumentation. It handles fast pulsed instruments such as RTD transmitters and PLCs responding to pulses

Instrumentation Management Software

The Fluke 753 and 754 are compatible with Fluke 750SW DPC/TRACK2 software and with software from Cornerstone, Emerson, Honeywell, On Time Support, Prime Technologies, Yokogowa, Intools, Meridium,

For more information, visit www.fluke.com

Functions	Measure	Sourcing
DC voltage	0.02% reading + 0.005% full scale	0.01% output + 0.005% full scale
DC current	0.01% reading + 5 μA	0.01% output + 0.003 mA
Resistance	0.05% reading + 50 mΩ	0.01% output + 240 mΩ
requency	0 to 50kKHz, ±0.5 Hz to 1100 Hz	0 to 50 kHz, ±0.1 Hz to 1099.9 Hz
hermocouples	0.3° C (0.54° F)	0.2° C (0.36° F)
RTDs	0.3° C (0.54° F)	0.1° C (0.18° F)
Pressure	To 0.02% of full scale, per pressure module	specifications
	•	

General Specifications	
Battery life	Typically over eight hours
Internal battery pack	Li ion 4400 mAh
Battery replacement	Via twist lock fastener without opening calibrator
Weight	1.2 kg (2.7 lb)
Size (HxWxD)	136 x 245 x 63 mm (5.4 x 9.6 x 2.5 in)
RTDs	0.3° C
Pressure	To 0.02% of full scale, per pressure module specifications - see page 124

Recommended Accessories

DPC/TRACK2



700PTP-1 Field Soft Case Pneumatic Test Pump



700HTP-2 Hydraulic Test Pump



Recommended Kits Bundle and Save



Fluke 754/750SW 754DPC and 750SW DPCTRACK2 Bundle Package

Purchase the Fluke 754 with the Fluke DPC/TRACK2™ software at a special bundle package price.

For more information, go to fluke.com/754

Included Accessories

Stackable Test Leads (3 sets), TP220 Test Probes (3 sets) with extended Tooth Alligator Clips (3 sets), AC280 Hook Clips (2 sets), BP7240 Liion Battery Pack, BC7240 Battery Charger, C799 Field Soft Case, USB Communication Cable, Getting Started Guide, Instruction Manual on CDROM, Traceable Certificate of Calibration, DPCTrack™2 Sample Software that enables upload and printing of calibration records, HART™ Communication Cable (754 only).

Ordering Information

FLUKE-753	Documenting Process Calibr
FLUKE-754	Documenting Process Calibr HART™

FLUKE-754/ 750SW

Package DPC/TRACK2 FLUKE-750SW

754DPC and 750SW **DPCTRACK2** Bundle

Software



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Fluke 154 HART™ Calibration Assistant





Fluke 154



HART™ Calibration assistance at your fingertips. Combine with a Fluke Calibrator for a total HART Calibration Solution.

The Fluke 154 puts HART device configuration at your fingertips. An Android™ based tablet user interface makes HART configuration easy. The external wireless modem allows you to connect the modem to the transmitter being tested so you can communicate to the device remotely. HART transmitters can often be found in confined spaces that are difficult to access, or are out of reach. The Fluke 154 helps reduce the need to stand right next to the device being tested or configured so you can work from a safer, more convenient location.



When you combine the Fluke 154 Communicator with a Fluke 750 Series Documenting Process Calibrator, or a Fluke 720 Series Multifunction Process Calibrator you have a complete HART calibration and configuration solution.

- Full HART Device Description (DD) support of all HART devices
- Configure HART devices
- Perform HART trim on HART devices when used with a Fluke 750 or 720 series calibrator
- Monitor device PV, SV, TV, QV and other measured HART variables
- Quarterly HART DD updates for free
- Convenient wireless connectivity to HART modem
- Easy to use, fast connect and view HART data
- Store HART device configurations
- Long range wireless communication up to 76.2 m (250 ft)
- Three-year warranty

Tablet	
Operating system	Android 5.0 or newer
Processor	ARM or Atom
Memory RAM	1 GB
Memory ROM	2 GB
Screen	960 × 540 qHD
Communication port	Bluetooth
HART™ Modem	
Enclosure	
Dimensions (LxWxH)	10.16 x 2.5 x 6.9 cm (4 x 1 x 2.75 in)
Total unit weight	0.16 kg (0.36 lbs)
HART cable length	1.2 m (4 ft)
HART cable connectors	Mini-Grabber
HART™ Interface	
Interface	Capacitive coupling
Output	600 mVpp
Leakage	< 10 uA
Connections	Across loop resistor or HART field device
Specifications	HART 4, HART 5, HART 6, HART 7
HART physical layer spec	HCF_SPEC-54
Specification	Bluetooth v2.0
Frequency	2.4 GHz
Class 1 master distance	83.8 m (275 ft)
Battery Type	Rechargeable Li-ion
Battery Life	19 hours continuous use
Humidity	0% to 90% (non-condensing)

Included Accessories

Tablet Charger and USB, Microcable, Fluke HART™ App (installed), HART Modem, USB Mini-Cable, Hook Test Clips, Alligator Clips, Magnetic Hanging Strap, Case, Manual installed on Tablet.

Ordering Information

Fluke 154

HART Calibration Assistant

Contact your local distributor for price and availability. fluke.com/findus

Fluke 712B, 714B and 724 Temperature Calibrators



Fluke 714B



Fluke 712B



Temperature Calibration

Accuracy and simplicity

The Fluke 712B and 714B are designed for both simplicity, ease of use and high accuracy. They are a powerful combination of temperature and loop calibration.

Fluke 714B Thermocouple Calibrator

- Measure and simulate 17 different thermocouple types and millivolts
- Measure 4-20 mA signals while simultaneously sourcing a temperature signal
- Hanging tool designed in and included with every unit
- Configurable 0% and 100% source settings for quick 25% linearity checks
- Linear ramp and 25% step auto ramp based on 0% and 100% settings
- Dual inputs and backlit display for easy interpretation of measurements
- Power-down settings remembered at power up for easy restart of tests
- 1 and 2 year specifications and traceable certificate of calibration
- Three-year warranty

Fluke 712B RTD Calibrator

- Measure and simulate 13 different RTD types and resistance
- Measure 4-20 mA signals while simultaneously sourcing a temperature signal
- Configurable 0% and 100% source settings for quick 25% linearity checks
- Linear ramp and 25% step auto ramp based on 0% and 100% settings
- Dual inputs and backlit display for easy interpretation of measurements
- 1-year and 2-year specifications and traceable certificate of calibration
- Three-year warranty

General specifications	712B	714B
Operating temperature	-10° C to 50° C (14° F to 122° F)	
Operating altitude	2000 m (6561 ft)	
Relative humidity (% RH operating without condensation)	Non condensing 90% (10° C to 30° C (14° F to 86° F) 75% (30° C to 40° C (86° F to 104° F)), 45% (40° C to 50° C (104° F to 122° F)) (Without con	,
Vibration requirements	MIL-T-28800E, Class 2	
Drop test requirements	1 m (3.28 ft)	
Ingress Protection	IEC 60529: IP52	
Safety	IEC 61010-1, Max 30 V to earth, Pollution Degree 2	
Power supply	Four AA NEDA 15A IEC LR6 batteries	
DC mA measurement		
Resolution	0-24 mA	
Range	0.001 mA	
Accuracy (% of reading + counts)	0.01% + 2 μA	
Ohms measurement		
Ohms range	0.00 Ω to 400.00 Ω , 400.0 Ω to 4000.0 Ω	
Accuracy (% of reading +counts)	0.01% + 0.05 Ω, 0.01% + 0.5 Ω	
Ohms source		
Ohms range	1.0 Ω to 400.0 Ω , 1.00 Ω to 400.00 Ω , 400.0 Ω to 1500.0 Ω , 1500.0 Ω to 4000.0 Ω	
Accuracy (% of reading + counts)	0.01% + 0.1 Ω , 0.01% + 0.05 Ω , 0.01% + 0.5 Ω , 0.01% + 0.5 Ω	
Resolution		
0.00 Ω to 400.00 Ω	0.01 Ω	
400.0 Ω to 4000.0 Ω	0.1 Ω	
Millivolt measurement & source		
Resolution		-10 mV to 75 m
Range		0.01 mV
Accuracy (% of reading +counts)		0.01% + 10 mV

Specialty Models

Fluke 724 Temperature Calibrator

- Easy to read dual display allows for input and output simultaneous view
- Source/measure TCs, RTDs, volts and ohms
- Measure mA while supplying loop power
- 25% and 100% stepping, auto-step and auto





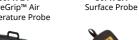
AC220 SureGrip™ Alligator Clips

Fluke 712/724













80PK-3A

Included Accessories

Fluke 714B/712B: Magnetic Hanging Tool, Batteries, Manual, Traceable Calibration Certificate and Test Leads.

Fluke 724: TL75 Test Leads, AC175 Test Clips, Stackable Test Leads (1 pair), Spare Fuse, User Manual and Traceable Certificate of Calibration.

Ordering Information

FLUKE-714B Thermocouple Temperature Calibrator
FLUKE-712B RTD Calibrator

FLUKE-712B FLUKE-724

Temperature Calibrator



Available in limited regions only.

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Process Calibration Tools Multifunction Calibration

FLUKE Calibration

Recommended Accessories

Carrying Case (1586A Super DAQ)

Fluke 9100S/9102S

9300

Rugged Carryin

Ordering Information

9100S-B-256

9100S-C-256

9100S-D-256

9102S-256

1586A/1DS

1586A/2DS

1586A/DS

1586A/1HC

1586A/2HC

-HC

1586A

9100S-A-256 HDRC Handheld Dry

Temp

Well, Block A, High-

HDRC Handheld Dry

Well, Block B, High-

HDRC Handheld Dry

Well, Block C, High-

HDRC Handheld Dry-

Well, Block D, High-

HDRC Handheld Dry-

Super-DAQ Precision

Temperature Scanner

Super-DAQ Precision

Scanner, 1 DAQ-STAQ

Super-DAQ Precision

Scanner, 2 DAQ-STAQ

Super-DAQ Precision

Temperature Scanner,

Module, 1 DAQ-STAQ

Super-DAQ Precision

Super-DAQ Precision

Temperature Scanner, 2 High-Capacity

1 High-Capacity

Temperature Scanner,

Well, Low-Temp

Temperature

Temperature

Multiplexers

1 High-Capacity

Multiplexer

Multiplexer

Fluke Calibration 1524 Reference Thermometers



The Fluke Calibration 1524 Reference Thermometers measure, graph and record PRTs, thermocouples and thermistors. You can measure up to 0.3 seconds per sample and plot and scale trends in real time. Both thermometers have memory for up to 25 readings with statistics. The 1524 has two inputs with data logging memory for 15000 measurements with date and time

- High accuracy PRTs: ±0.01° C; Thermocouples: ±0.24° C; Thermistors: ±0.002° C
- A simple user interface to see trends quickly
- Smart connectors to load probe information
- Optional on a PC LogWare II software to monitor and log more data over time
- One-year warranty



Models	Included accessories
	Fluke 1524 Bundled with:
1524-P2	5628 PRT, Universal TC INFO-CON Connector, TPAK and Case
1524-P3	5627A PRT, Universal TC INFO-CON Connector, TPAK and Case

1524-P4 5615 PRT, Universal TC INFO-CON Connector, TPAK and Case

Fluke Calibration 1551A Ex and 1552A Ex Stik Thermometer Readouts



Fluke 1552A Ex

Best substitute for precision mercuryfilled glass thermometers

The Fluke 1551A Ex and 1552A Ex Stik Thermometers are an accurate and repeatable substitute for mercuryin-glass thermometers. Whether working outdoors in environments where potentially explosive gases may be present or on the floor of a processing plant, these intrinsically-safe, battery operated, portable reference thermometers are designed to go where you work.

- User-configurable temperature Trend/Stability indicator
- Optional data logging to internal memory
- 300-hour battery life
- NVLAP-accredited, NIST-traceable calibration included
- Accuracy of ±0.05° C (±0.09°F) over full range
- Intrinsically safe (ATEX and IECEx compliant) Ex ib IIB T4 Gb
- Two models to choose from (-50° C to 160° C (-58° F to 320° F)) or -80° C to 300° C (-112° F to 572° F))
- One-year warranty

Models	Included accessories
1551A-9*	1551A Ex Thermometer, Fixed RTD, -50° C to 160° C (-58° F to 320° F), 4.8 mm × 229 mm (0.18 in × 9.01 in)
1551A-12*	1551A Ex Thermometer, Fixed RTD, -50° C to 160° C (-58° F to 320° F), 6.35 mm × 305 mm (0.25 in × 12 in)
1551A-20*	1551A Ex Thermometer, Fixed RTD, -50° C to 160° C (-58° F to 320° F), 6.35 mm × 508 mm (0.25 in × 20 in)
1552A-12*	1552A Ex Thermometer, Fixed PRT, -80° C to 300° C (-112° F to 572° F), 6.35 mm × 305 mm (0.25 in × 12 in)

^{*}Datalogging option models also available as -DL

Recommended Accessories



5615-12-P Precision PRT $(0.25 \text{ in} \times 12 \text{ in})$

Precision Thermistor 3.2 mm × 229 mm $(0.12 \text{ in} \times 9.01 \text{ in})$



2384-P, 2384-T INFO-CON Connectors, PRT (gray can) or TC (blue can)

Fluke 1551AEx/2AEx





Fluke Calibration 7526A Precision **Process Calibrator**



The Fluke Calibration 7526A Precision Process Calibrator offers the best balance of economy and accuracy for benchtop calibration of temperature and pressure process instrumentation.

Easily calibrate RTD and thermocouple readouts, pressure gauges, temperature transmitters, digital process simulators, data loggers, multimeters and more.

- Sources and measures DC voltage, current, resistance, RTDs and thermocouples
- Precision pressure measurement using Fluke 750P Series Pressure Modules
- Measures 4-20 mA loop current
- Includes certificate of calibration traceable to national standards
- Thermocouple output/input: -10 mV to 75 mV ±(30 ppm of reading +2 μV)
- Transmitter output: 0 mA to 24 mA (input with loop power) ±(100 ppm
- Resistance output: 5 Ω to 400 Ω +0.01 O

Contact your local distributor for price and availability.

Fluke Calibration 9100S and 9102S **Handheld Dry-Well Temperature Calibrators**





Fluke 9100S



calibration below ambient. 9102S Handheld Dry-Well

- Smallest dry-wells in the world
- Interchangeable and customizable inserts available

The Fluke Calibration 9100S and 9102S are the world's

smallest, lightest and most portable dry-wells. With

an easy-to-use interface and temperature range to

375° C (707° F) the 9100S is ideal for checking RTDs,

thermocouples, and small bimetal thermometers in the

(14° F to 251° F) the 9102S is ideal for dial gauges, digital thermometers, bulb switches, and other sensors that need

field. For work in the temperature range of -10° C to 122° C

- Ranges from -10° C to 122° C (14° F to 251° F)
- Accuracy to ±0.25° C (±0.45° F)
- Stability of ±0.05° C (±0.09° F) at 0° C (32° F)
- One-year warranty

9100S Handheld Dry-Well

- High performance, convenience and easy-to-use
- Ranges from 35° C to 375° C (95°F to 707°F)
- Accuracy: ±0.25° C at 50° C; ±0.25° C at 100° C; ±0.5° C at 375° C (±0.45° F at 122° F; ±0.45° F at 212° F; ±0.9° F at 707° F)
- NIST traceable calibration
- · One-year warranty

Fluke Calibration 1586A Data **Acquisition System**

1586A Super DAQ Precision Temperature Scanner

The 1586A Super DAQ automates calibration when connected to a Fluke Calibration temperature source. It is a powerful thermometer readout and the most accurate and flexible temperature data acquisition system on the

- Measure thermocouples, PRTs, thermistors, DC voltage, DC current, and resistance
- Best-in-class temperature measurement accuracy
- PRTs: ±0.005° C (±0.009° F)
- $\bullet~$ Thermocouples: $\pm 0.3^{\circ}$ C ($\pm 0.54^{\circ}$ F) (Type K,T,J w/ internal
- Thermistors: ±0.002° C (±0.004° F)
- One-year warranty

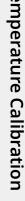
Optional: ISO I7025 Accredited Calibration available for 1586A models (add "/C" to the model number)



Fluke 1586A



Contact your local distributor for price and availability. fluke.com/findus



Process Calibration Tools Temperature Calibration Temperature Calibration Process Calibration Tools 126

FLUKE

Calibration

HART DRYWELL CARLE

754/Dry-Well/

Microbath Interface

Fluke 9308/9316

Carrying Case

Metrology Well

Complete Solution

Fluke 754 with 914X Series Field

By combining the automating and

documenting capabilities of the Fluke

754 Documenting Process Calibrator

intelligent and stable family of field

drywells and micro-baths, you have

the capability to test the process

of the temperature sensor and

measurement electronics. Using

this information, the entire loop

measurement performance.

Contact your local distributor for

price and availability.

can be adjusted to optimize system

sensor and the entire loop.

(see page 116) with Fluke Calibration's

This combination of equipment allows

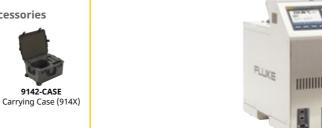
you to easily verify the characteristics

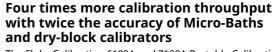
9316

Rugged Carrying

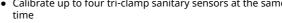
Fluke Calibration 6109A and 7109A Portable **Calibration Baths**

Recommended Accessories





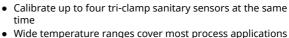
The Fluke Calibration 6109A and 7109A Portable Calibration Baths let process industry professionals calibrate four times more sanitary sensors per batch in less time and with twice the accuracy of other baths in this class. Up to four tri-clamp sanitary sensors fit easily into these baths for calibration at ±0.1° C temperature display accuracy. Throughput is even higher for sanitary RTDs with small or no flanges.



- 6109A: 35° C to 250° C (95° F to 482°)
- Excellent display accuracy of ±0.1° C (±0.18° F)provides 4:1 test uncertainty ratio (TUR) for critical applications







- 7109A: -25° C to 140° C (-13 ° F to 284° F)
- One-year warranty

	6109A	7109A	
Range (at 25° C ambient temperature)	35° C to 250° C (95° F to 482°)	-25° C to 140° C (-15° C cover off) (-13° F to 284° F (5° F cover off))	
Accuracy (MAX possible error)	0.1° C (0.18° F)	0.1° C (0.18° F)	
Display resolution	0.01, 0.001°	0.1,0.001°	
Stability	0.015° C (0.027° F)	0.01° C (0.018° F)	
Typical uniformity	0.03° C up to 200° C (0.054° F up to 392° F) 0.04° C above 200° C (0.072° F up to 392° F)	0.02° C (0.036° F)	

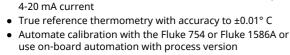
Field temperature calibration with precision and speed Whether you need to calibrate 4-20 mA transmitters or a simple thermostatic switch, a Fluke Calibration Field Metrology Well is the right tool for the job. With three models covering the range of -25° C to 660° C, this family of Metrology Wells calibrates a wide range of sensor types. The optional process version (models 914X-X-P) provides a built-in twochannel thermometer readout that measures PRTs, RTDs, thermocouples, and 4-20 mA transmitters which includes the 24 V loop supply to power the transmitter. • Lightweight, portable, and fast







Field Metrology Wells



• 9142 -25° C to 150° C ±0.2° C (-13° F to 302° F ±0.4° F)

• 9144 50° C to 660° C ±0.35° C to 420° C, ±0.5° C to 660° C

• Cool to -25° C (-13° F) in 15 minutes and heat to 660° C

(122° F to 1,220° F ±0.63° F to 788° F, ±0.9° F to 1,220° F)

· Built-in two-channel readout for PRT, RTD, thermocouple,

• 9143 33° C to 350° C ±0.2° C (91° F to 662° F ±0.4° F)

One-year warranty

(1,220° F) in 15 minutes

Models		Well inserts X in the model number to be replaced with A, B, C, D, E, c F as appropriate for the desired insert.		
9142-X	Field Metrology Well, -25° C to 150° C (-13° F to 302°)	9142-INSA 9142-INSB	Insert A, 9142, misc holes Insert B, 9142, comp holes	
9142-X-P	Field Metrology Well, -25° C to 150° C (-13° F to 302°), process version	9142-INSC	Insert C, 9142, 6 × 0.25 in holes	
9143-X	Field Metrology Well, 33° C to 350° C (91° F to 662° F	9143-INSA 9143-INSB 9143-INSC 9144-INSA 9144-INSB	Insert A, 9143, misc holes Insert B, 9143, comp holes	
9143-X-P	Field Metrology Well, 33° C to 350° C (91° F to 662° F), process version		Insert C, 9143, 6 × 0.25 in holes	
9144-X	Field Metrology Well, 50° C to 660° C (122° F to 1,220° F)		Insert A, 9144, misc holes Insert B, 9144, comp holes	
9144-X-P	Field Metrology Well, 50° C to 660° C (122° F to 1,220° F), process version		Insert C, 9144, 6 × 0.25 in holes	

Fluke Calibration 9142, 9143 and 9144

Fluke Calibration 1502A and 1504 Tweener Thermometer Readouts



Best performance thermometers in their price range

The 1502A and 1504 Tweener Thermometer Readouts are lowcost high-accuracy digital thermometers featuring accuracy of up to ±0.006° C (±0.011° F) (Fluke 1502A) and up to ±0.002° C (±0.004° F) (Fluke 1504).

- The 1502A is designed to be used with 25 Ω and 100 Ω RTDs
- The 1504 Thermometer Readout is designed to be used with thermistors or RTDs with a nominal resistance of 1000 O or greater
- · One-year warranty.

Fluke Calibration 1620A Precision

Fluke Calibration 9103 and 9140 **Field Dry-Well Calibrators**



Fluke Calibration 9103 and 9140 Field Dry-Well Calibrators beat every other comparable dry-well in the industry in performance, size, weight, convenience, ease of calibration, software, and price. The heating and cooling rate of each of these dry-wells is adjustable from the front panel, and thermal switches can be checked for actuation testing. Multiple-hole inserts are available for a variety of probe sizes.

- Lightweight and very portable
- Two models ranging from -25° C to 350° C (-13° F to 662° F)
- Accuracy to ±0.25° C
- Stability to ±0.02° C
- RS-232 and Interface-it software included
- Easy to recalibrate
- One-year warranty

CON COURT				
Models	Specify X, X = A, B, C, or D included insert			
9103-X Field Dry-Well Calibrator,	Insert A:	1.6 mm (1/16 in), 3.2 mm (1/8 in), 4.8 mm (3/16 in), 6.35 mm (1/4 in), 9.5 mm (3/8 in) and 12.7 mm (1/2 in)		
-25° C to 140° C (-13° F to 284° F)	Insert B:	2 at 4.8 mm (3/16 in), 2 at 6.35 mm (1/4 in) and 2 at 9.5 mm (3/8 in)		
9140-X Field Dry-Well Calibrator, 35° C to 350° C (95° F to 662° F)	Insert C:	Six at 6.35 mm (1/4 in)		
	Insert D:	2 at 3 mm (0.118 in), 2 at 4 mm (0.157 in) and 2 at 6 mm (0.236 in)		

9.95°C 68.5%

Thermo-Hygrometer

Fluke 1620A

The most accurate temperature and humidity graphical data loggers on the market

Now you can easily monitor and record conditions throughout your entire facility with the DewK's new Ethernet and wireless capabilities, and set your upgraded LogWare III software to notify you immediately of changing conditions.

The 1620A accepts inputs from up to two sensors, which may be mounted directly on the unit or remotely. Each sensor comes with a NVLAP-accredited certificate of calibration for both temperature and humidity, complete with data and NIST traceability. The 1620A-S reads temperature to ±0.25° C (±0.45° F) over its calibrated range of 15° C to 35° C (59° F to 95° F). Relative humidity readings are to ±2% RH from 20% RH to 70%

One-year warranty.

Ordering Information

6109A Portable Calibration Bath, 35° C to 250° C

Recommended Accessories

7109-2027

Holding Fixture

7109-2080

Fluid Overflow Kit

2505

Spare Connector

Spare Power Supply 100 to 240 V AC

Fluke 6109A/7109A

7109-CASE

7109-2051

Sinale Probe

9301

probe

Fluke 1502A/1504

6109A- Portable Calibration Bath with Process Electronics. 35° C to 250° C

Portable Calibration Bath, -25° C to 140° C

7109A- Portable Calibration Bath with Process Electronics. -25° C to 140° C

Tweener PRT Readout 1502A 1502A Tweener PRT Readout, with

IEEE-488 2506 **Tweener Thermistor** 1504

Readout **Tweener Thermistor** 1504-

Readout, with IEEE-488 2506 1620A-The "DewK"

Thermo-Hygrometer, High-Accuracy Value Kit

The "DewK" Thermo-Hygrometer, High-Accuracy Value Kit

The "DewK" Thermo-Hygrometer,

Standard-Accuracy Value Kit The "DewK"

Thermo-Hygrometer, Standard-Accuracy Value Kit

9936A LogWare III Software

Contact your local distributor for price and availability. fluke.com/findus



Process Calibration Tools Temperature Calibration Temperature Calibration Process Calibration Tools



Fluke Calibration 9132 and 9133 Portable **Infrared Calibrator**







Precision when you need it for infrared temperature calibration

Whether you're using in-line or handheld infrared pyrometers, you need good calibration standards to verify their accuracy. Our portable IR calibrators provide stable blackbody targets for calibrating

non-contact IR thermometers from -30° C to 500° C (-22° F to 932° F).

These units feature a temperature-controlled measurement surface with a diameter of 57 mm (2.25 in). The target temperature can be controlled in setpoint increments of 0.1° from -30° C to 500° C (-22° F to 932° F) and a well is located directly behind the blackbody surface for contact calibration.

- Certify IR pyrometers from -30° C to 500° C (-22° F to 932° F)
- Large 57 mm (2.25 in) blackbody target
- RTD reference well for contact temperature measurement
- Small, compact design
- One-year warranty

General specifications	9132	9133	
Temperature Range	50° C to 500° C (122° F to 932° F)	-30° C to 150° C at 23° C ambient (-22° F to 302° F at 73° F ambient)	
Accuracy	±0.5° C at 100° C (±0.9° F at 212° F) ±0.8° C at 500° C (±1.4° F at 932° F)	±0.4° C (±0.72° F)	
Target Size	57 mm (2.25 in)	57 mm (2.25 in)	
Target Emissivity	0.95 (±0.02 from 8 to 14 μm)	0.95 (±0.02 from 8 to 14 μm)	
Heating Time	30 minutes (50° C to 500° C (122° F to 932° F))	15 minutes (25° C to 150° C (77° F to 302° F))	
Cooling Time	30 minutes (500° C to 100° C (932° F to 212° F))	15 minutes (25° C to –20° C (77° F to -4° F))	

Recommended Accessories 9308 9302 Carrying Case 4180-CASE 4180-APRT 2" Carrying Case (4180 or 4181) Aperture (4180 or 4181)



Fluke Calibration 4180 and 4181 Precision **Infrared Calibrators**





Accredited performance for point and shoot calibrations

Now it's easy to increase your IR temperature measurement accuracy with the Fluke Calibration 4180 and 4181 Precision Infrared Calibrators. These infrared temperature calibrators give more consistent, accurate and reliable calibrations because emissivity is radiometrically calibrated, and the target size minimizes size of source effect errors. In addition, these infrared calibrators simplify calibration because they uniquely compensate for errors caused by thermometer emissivity settings.

- · Calibrated radiometrically for meaningful, consistent results
- Accurate, reliable performance from -15° C to 500° C (5°
- Large target size of 152 mm (5.98 in) is required for calibrating most thermometers
- Accredited radiometric calibration report
- One-year warranty

Ordering In	formation
9312-256	Portable IR Calibrator 50° C to 500° C
9133-256	Portable IR Calibrator -30° C to 150° C
4180	Precision Infrared Calibrator, –15° C to 120° C
4181	Precision Infrared Calibrator, 35° C to 500° C

Contact your local distributor for price and availability.

Fluke 750P and 750PEx **Series Pressure Modules**





Precision pressure measurement for Fluke 750 and 720 Series Calibrators

The Fluke 750P Series Pressure Modules are the ideal pressure modules to enable gage, differential and absolute pressure measurement with Fluke 750 and 740 Series DPCs and 725, 726 MPCs to measure

Covers pressure calibrations from 0 to 1 inH₂O to 10000 psi (2.5 mbar to 690 bar).

- 0.025% reference uncertainty
- 6-month and 1-year specifications
- Intrinsically safe models are Class I Div 1 Groups A-D T4, Ta = -10° C to $+50^{\circ}$ C (14° F to 122° F), ATEX II 1G Ex ia IIC T4 Ga compliant
- Ships with Traceable Certificate of Calibration
- Three-year warranty

Model	Parameter/Range	Burst Rating ⁶	Hi Side Media ²	Lo Side Media ²	Reference Uncertainty ⁵
Differential		Rating	Wiedia	Wedia	Officertainty
750P00	0 to 1 in H ₂ O (0 to 2.5 mbar)	30X	Dry Air	Dry Air	±0.15%
750P01 ⁴	0 to 10 in H ₂ O (0 to 25 mbar)	3X	Dry Air	Dry Air	±0.1%
750P02	0 to 1 psi (0 to 70 mbar)	3X	Dry Air	Dry Air	±0.05%
750P22	0 to 1 psi (0 to 70 mbar)	3X	316 SS	Dry Air	±0.05%
750P03	0 to 5 psi (0 to 350 mbar)	3X	Dry Air	Dry Air	±0.02%
750P03	0 to 5 psi (0 to 350 mbar)	4X	316 SS	Dry Air	±0.02%
750P04	0 to 15 psi (0 to 1 bar)	3X	Dry Air	Dry Air	± 0.0175%
750P04 750P24 ⁴		4X	316 SS	,	
	0 to 15 psi (0 to 1 bar)	41	310 33	Dry Air	± 0.0175%
Gage	la. 22 (2) 21)	n/	245.55		. 0.0475
750P05 ⁴	0 to 30 psi (0 to 2 bar)	4X	316 SS	N/A	± 0.0175%
750P06 ⁴	0 to 100 psi (0 to 7 bar)	4X	316 SS	N/A	± 0.0175%
750P27 ⁴	0 to 300 psi (0 to 20 bar)	4X	316 SS	N/A	± 0.0175%
750P07	0 to 500 psi (0 to 35 bar)	4X	316 SS	N/A	± 0.0175%
750P08	0 to 1000 psi (0 to 70 bar)	3X	316 SS	N/A	± 0.0175%
750P09 ⁴	0 to 1500 psi (0 to 100 bar)	3X	316 SS	N/A	± 0.0175%
750P2000	0 to 2000 psi (0 to 140 bar)	3X	316 SS	N/A	± 0.0175%
High	,				
750P29	0 to 3000 psi (0 to 200 bar)	3X	316 SS	N/A	± 0.0175%
750P30	0 to 5000 psi (0 to 340 bar)	3X	316 SS	N/A	± 0.0175%
750P31	0 to 10000 psi (0 to 700 bar)	2X	316 SS	N/A	± 0.0175%
Absolute					
750PA3	0 to 5 psia (0 to 350 mbar)	4X	316 SS	N/A	±0.03%
750PA4 ⁴	0 to 15 psia (0 to 1 bar)	4X	316 SS	N/A	±0.03%
750PA5	0 to 30 psia (0 to 2 bar)	4X	316 SS	N/A	±0.03%
750PA6	0 to 100 psia (0 to 7 bar)	4X	316 SS	N/A	±0.03%
750PA27	0 to 300 psia (0 to 20 bar)	4X	316 SS	N/A	±0.03%
750PA7	0 to 500 psia (0 to 35 bar)	4X	316 SS	N/A	±0.03%
750PA8	0 to 1000 psia (0 to 70 bar)	3X	316 SS	N/A	±0.03%
750PA9	0 to 1500 psia (0 to 100 bar)	3X	316 SS	N/A	±0.03%
Vacuum				-	
750PV3	-5 psi (-350 mbar)	4X	316 SS	Dry Air	±0.03%
750PV4	-15 psi (-1 bar)	4X	316 SS	Dry Air	±0.03%
Dual	15 ps. (1 su.)	""	3.033	2.77	2010370
750PD2	-1 to 1 psi (-70 to 70 mbar)	4X	316 SS	Dry Air	±0.05%
750PD3	-5 to 5 psi (-350 to 350 mbar)	4X	316 SS	Dry Air	±0.03%
750PD10	-10 to 10 psi (-700 to 700 mbar)	4X	316 SS	Dry Air	±0.025%
750PD4	-15 to 15 psi (-1 to 1 bar)	4X	316 SS	Dry Air	± 0.0175%
750PD5	-15 to 30 psi (-1 to 2 bar)	4X	316 SS	N/A	± 0.0175%
750PD50		4X 4X			
	-15 to 50 psi (-1 to 3.5 bar)		316 SS	N/A	± 0.0175%
750PD6	-15 to 100 psi (-1 to 7 bar)	4X	316 SS	N/A	± 0.0175%
750PD7	-15 to 200 psi (-1 to 14 bar)	4X	316 SS	N/A	± 0.0175%
750PD27	-15 to 300 psi (-1 to 20 bar)	4X	316 SS	N/A	± 0.0175%
1 Total uncort	ainty of of full coan for tomporature range	0 00 C to +E0	0		tal uncortainty 1 0% of

- 1. Total uncertainty, % of full span for temperature range 0° C to +50° C, one year interval. Total uncertainty, 1.0% of full span for temperature range -10° C to 0° C, one year interval. No 6 month specification available for range -10° C
- 2. "NON-CORROSIVE GASES" indicates dry air or non-corrosive gas as compatible media. "Stainless Steel 316-SS" indicates media compatible with Type 316 Stainless Steel.

 3. Specifications % of Full Span unless otherwise noted.

- 4. Intrinsically Safe pressure module available in this pressure range.
 5. Reference Uncertainty is the specification for as left data for 24 hours.
 6. Burst rating specification refers to the multiplier times full scale of the module for the rated burst pressure.

For a complete list of Fluke Pressure Modules, go to fluke.com

Specialty Models Fluke 750PEx

Pressure Modules The Fluke 750PEx Series comprises a family of 8 pressure modules

covering pressure calibration ranges from 0 to 10 inH₂O to 3000 psi, including gage, differential, dual range and absolute intrinsically safe models.

II 1G Ex ia IIC T4 Ga

Recommended Accessories





82

700HTH-1 Hydraulic Test Hose

700PRV-1

Kit

700HTP-2



Pressure Pump Pressure Relief Valve





Contact your local distributor for price and availability. fluke.com/findus



130 **Process Calibration Tools Temperature Calibration Pressure Calibration Process Calibration Tools**

Fluke 717, 718 and 719 Pressure Calibrators

Accurate and rugged, temperature calibration tools



Fluke 717 Pressure Calibrators

- Measure up to 10 000 psi/690 bar sensor (10 000G
- Compatible with non-corrosive gases and liquids
- 10 pressure ranges available

Fluke 718 Pressure Calibrators

- 1, 30, 100 and 300 psi ranges available
- Pump to 300 psi, 20 bar with internal pump • 718-1G includes special low volume pump and high measurement resolution for low pressure calibration

Fluke 719 Electric Pressure Calibrators

- Electric pump enables one-handed pressure pumping and makes pressure calibration quicker and easier
- Best in class 0.02% pressure measurement accuracy
- Programmable pump limit settings can eliminate overpressurization—set 'pump to' pressure values
- Two ranges, 30 psi and 100 psi

Fluke 717, 718 and 719 common features

- Pressure switch test makes a difficult task easy, captures set, reset and deadband values of a
- pressure switch

 717 and 718 measure pressure to 0.02% of full scale with internal sensor
- Measure mA with 0.01% accuracy and 0.001 mA resolution, while providing 24 V loop power
- Three-year warranty









Compatible with non-corrosive

Accuracy: ±0.01% + 1 count

gases and fluids

Accuracy: ±10%

718-1G	+7 kPa)	0.001 inH ₂ O	on-board pump
717-15G	-12 to 15 psi, -83 to 103 kPa	0.001 ps1, 0.01 kPa, 0.01 inH ₂ O	_
717-30G 718-30G* and 719-30G	-12 to + 30 psi, (-83 to 207 kPa)	0.001 psi, 0.001 kPa, 0.001 inH ₂ O	Fluke 718 and Fluke 719 dry air only and includes on-board pump
717-100G 718-100G*	-12 to + 100 psi, (-83 to 690 kPa)	0.01 psi, 0.01 kPa, 0.01 inH ₂ O	Fluke 718 and Fluke 719 dry air only and includes on-board pump
717-300G 718-300G* and 719-100G	-12 to +300 psi, (-83 to +2070 kPa)	0.01 psi, 0.01 kPa, 0.01 inH ₂ O	Fluke 718 dry air only and includes on-board pump
717-500G	0-500 psi, 0-3450 kPa	0.01 psi, 0.1 kPa	Compatible with non-corrosive gases and fluids
717-1000G	0-1000 psi, 0-6900 kPa	0.01 psi, 0.1 kPa	Compatible with non-corrosive gases and fluids
717-1500G	0-1500 psi, 0-10342 kPa	0.1 psi, 1 kPa	Compatible with non-corrosive gases and fluids
717-3000G	0-3000 psi, 0-20700 kPa	0.1 psi, 1 kPa	Compatible with non-corrosive gases and fluids
717-5000G	0-5000 psi, 0-34500 kPa	0.1 psi, 1 kPa	Compatible with non-corrosive gases and fluids

+/- 1 psi, 27.5 inH₂O, (-7 - | +0.001 psi, 0.001 kPa, | Fluke 718 dry air only and includes

0.03% of range, 1 year, 0.02% for 6 months, 717 and 718-1G: 0.05% 6 months, 1 year,

0.001 mA resolution

0-24 mA range

0-10000 psi, 0-69000 kPa | 1 psi, 1 kPa

718 and 717-300G 0.03% 6 months, 0.05% 1 year

717-10000G

Pressure accuracy

mA measurement

Specialty Models

Fluke 718Ex **Intrinsically Safe Pressure Calibrator**

The Fluke 718Ex offers a convenient, self contained solution for pressure measureme and calibration.

- Ex ia IIC T4
- 30, 100, and 300 psi ranges (2, 7, and 20 bar)
- Pressure measurement to 0.05% of full span, using an internal pressure sensor.
- Pressure measurement to 200 bar using any of eight intrinsically safe Fluke 750PEx

Recommended Accessories





Pump





Large Soft Case

Included Accessories

Fluke 717/718/719: Protective Yellow Holster with Test Lead Storage, Instruction Sheet, 9 V Alkaline Battery (1x 717, 2x 718 & 719), Test Leads and Alligator Clips, Hose Kit (719), Traceable Calibration Report and Data Fluke 718Ex: Protective Red Holster, TL75 Test Leads, AC72 Test Clips, User Manual (CD), Fluke 718Ex CCD, Traceable Calibration Report and Data.

Ordering Information				
FLUKE-717 10000G, 1G	Pressure Calibrator, 10 000 PSI - 1 PSI (10 models)			
FLUKE-718 300G, 100G, 30G	Pressure Calibrator			
FLUKE-718Ex 300G, 100G, 30G	Intrinsically Safe Pressure Calibrator			
FLUKE-719 100G, 30G	Electric Pressure Calibrator 100PSI,			

Fluke 721 and 721Ex Precision Pressure **Calibrators**







Pressure calibration and temperature measurement for custody transfer applications

The Fluke 721 and 721Ex Precision Pressure Calibrators with dual isolated pressure sensors are the ideal tool for gas custody transfer applications allowing you to take simultaneous static and differential pressure measurements with a single tool.

The 721 and 721Ex can be configured by selecting either a 16 PSI (1.1 bar) or 36 psi (2.48 bar) low pressure sensor then adding any of 7 high pressure ranges including 100, 300, 500, 1000, 1500, 3000 or 5000 psi (6.9, 20, 24.5, 69, 103.4, 200, 345 bar).

- Intrinsically Safe (721Ex version only) IECEx and II 2G ia IIB T3 Gb (Zone 1)
- Ideal for gas flow calibration (custody transfer) applications
- Two isolated, stainless steel, pressure sensors with 0.02% accuracy
- Switch test on both pressure inputs
- Pt100 RTD input for temperature measurement, (probe optional)
- Measures 4-20 mA signals
- Internal 24 V loop power supply can power a transmitter under test (721 models only)
- Three-year warranty

	Low Pressure Sensor			High Pressure Sensor		
Model	Range 1	Resolution	Accuracy	Range 2	Resolution	Accuracy
Fluke-721-1601 Fluke-721Ex-1601 16PSIG, 100PSIG				-12 to +100 psi -0.83 to 6.9 bar	0.01 psi 0.001 bar	
Fluke-721-1603 Fluke-721Ex-1603 16PSIG, 300PSIG				-12 to +300 psi -0.83 to 20 bar	0.01 psi 0.001 bar	
Fluke-721-1605 16PSIG, 500PSIG	-14 to			-12 to +500 psi -0.83 to 34.5 bar	0.01 psi 0.001 bar	0.02% of
Fluke-721-1610 16PSIG, 1000PSIG	+16 psi -0.97 to			0 psi to +1000 psi 0.00 to 69 bar	0.1 psi 0.001 bar	full scale
Fluke-721-1615 Fluke-721Ex-1615 16PSIG, 1500PSIG	1.1 bar			0 to +1500 psi 0.00 to 103.4 bar	0.1 psi 0.001 bar	
Fluke-721-1630 Fluke-721Ex-1630 16PSIG, 3000PSIG				0 to +3000 psi 0.00 to 200 bar	0.1 psi 0.01 bar	
Fluke-721-1650 16PSIG, 5000PSIG		0.001 psi, 0.001 bar	0.02% of full scale	0 to +5000 psi 0.00 to 345 bar	0.1 psi 0.01 bar	0.03% of full scale
Fluke-721-3601 36PSIG, 100PSIG		0.001 bar Offull Scale	-12 to +100 psi -0.83 to 6.9 bar	0.01 psi 0.001 bar		
Fluke-721-3603 36PSIG, 300PSIG				-12 to +300 psi -0.83 to 20 bar	0.01 psi 0.001 bar	
Fluke-721-3605 36PSIG, 500PSIG				-12 to +500 psi -0.83 to 34.5 bar	0.01 psi 0.001 bar	
Fluke-721-3610 36PSIG, 1000PSIG	-14 to +36 psi			0 to +1000 psi 0.00 to 69 bar	0.1 psi 0.001 bar	0.02% of full scale
Fluke-721-3615 Fluke-721Ex-3615 36PSIG, 1500PSIG	-0.97 to 2.48 bar			0 to +1500 psi 0.00 to 103.4 bar	0.1 psi 0.01 bar	
Fluke-721-3630 Fluke-721Ex-3630 36PSIG, 3000PSIG				0 to +3000 psi 0.00 to 200 bar	0.1 psi 0.01 bar	
Fluke-721-3650 Fluke-721Ex-3650 36PSIG, 5000PSIG				0 to +5000 psi 0.00 to 345 bar	0.1 psi 0.01 bar	0.03% of full scale

Specialty Models Fluke 721Ex **Precision Pressure** Calibrator

The ideal tool for gas custody transfer applications in potentially explosive atmosphéres.



Recommended Accessories





Universal RTD Adapter for 721 and 719Pro

Included Accessories

Fluke 721/Ex: Soft Case, four AA Batteries, Manual, Traceable Calibration Certificate, Test Leads.

Ordering Information

FLUKE-721-3650	Dual Sensor Pressure Calibrator
FLUKE-721-3630	Dual Sensor Pressure Calibrator
FLUKE-721-3615	Dual Sensor Pressure Calibrator
FLUKE-721-3610	Dual Sensor Pressure Calibrator
FLUKE-721-3605	Dual Sensor Pressure Calibrator
FLUKE-721-3603	Dual Sensor Pressure Calibrator
FLUKE-721-3601	Dual Sensor Pressure Calibrator
FLUKE-721-1650	Dual Sensor Pressure Calibrator
FLUKE-721-1630	Dual Sensor Pressure Calibrator
FLUKE-721-1615	Dual Sensor Pressure Calibrator
FLUKE-721-1610	Dual Sensor Pressure Calibrator
FLUKE-721-1605	Dual Sensor Pressure Calibrator
FLUKE-721-1603	Dual Sensor Pressure Calibrator
FLUKE-721-1601	Dual Sensor Pressure Calibrator
Intrinsically Safe mo	dels available in

select ranges (add Ex to the above model numbers)

FLUKE-720RTD

RTD Probe for Fluke 721 and 719Pro

Universal RTD Adapter for Fluke FLUKE-720RTDUA

721 and 719Pro



132 **Process Calibration Tools Pressure Calibration Pressure Calibration Process Calibration Tools**

²⁴ V DC *Intrinsically safe models available, see page 141

Fluke 719Pro Pressure **Calibrators**









Loop power supply

functions)

Temperature effect (all

Integrated electric pump - now to 300 psi/20 bar

The Fluke 719Pro is an exciting enhancement of the popular original 719 pressure calibrators. Notable improvements include expanding the pressure measurement range of the 100 psi model up to 150 psi and the addition of a 300 psi range. The 719Pro adds a backlit display and precision temperature measurement with the addition of an accessory RTD probe available as a new accessory.

- Electric pump for one-handed pressure calibration • Best in class pressure measurement uncertainty of
- Variable release rate bleed valve for easy pressure adjustment
- 30 psi, 150 psi and the long requested 300 psi (2,10 and 20 bar) pressure ranges
- Programmable pressure calibrator pump limit eliminates over-pressurization and allows the user to program target pressures for pumping
- Extended pressure measurement range with any of 50 750PXX Pressure Modules
- Source mA with simultaneous pressure measurement to test valves and I/Ps
- Simulate mA signals to troubleshoot 4-20 mA loops
- Test pressure switches with built in switch test function • Power transmitters during test using 24 V loop supply with simultaneous mA measurement

24 mA at 24 V

Add ±0.002% F.S./° C for temps outside of

15° C to 35° C (Add ±0.004% F.S./° F for temps outside

• Three-year warranty

24 V DC

Pressure measurement	Range	Range		Accuracy
Fluke-719Pro-30G	-12 to 30 psi /-0.8 to 2 bar		0.001 psi, 0.001 bar	
Fluke-719Pro-150G	-12 to 150 psi /-0.8 to 10 bar		0.01 psi, 0.001 bar	±0.02% of full scale, 6 months
Fluke-719Pro-300G	-12 to 300 psi / -0.8	to 20 bar	0.01 psi, 0.001 bar	Scarcy o monans
			-	
Function	Range	Resolution	Accuracy (1 year)	
mA DC (simulation & measurement)	0-24 mA DC	0.001 mA	±(0.01% of reading + 2 co	ounts)
Volts DC (measurement only)	30 V DC	0.001 V	±(0.01% of reading + 2 co	ounts)
Temperature (measurement only, Pt100 RTD)	-50 to 150° C (-58° F to 302° F)	0.01° C (0.02° F)	Temperature ±0.1° C (0.	18° F)

Environmental	
Operating temperature	-10° C to 50° C (14° F to 122° F)
Storage temperature (without batteries)	-20° C to 60° C (-4° F to 140° F)
Power requirements	
Battery	8 standard alkaline AA batteries
Battery life	300 pump cycles to 150 psi minimum; 1000 pump cycles to 30 psi; 100 pump cycles to 300 psi minimum
Physical	
Size (HxWxD)	24.1 x 11.2 x 7.0 cm (9.5 x 4.4 x 2.8 in)
Weight	With holster 1.2 kg (2.5 lb)
Connections	
Pressure	1/8 inch female NPT
Electrical	Standard banana jacks
RTD	4 pin miniature circular
External module	6 pin miniature circular

Pressure Modules Fluke 750 Series

Pressure Modules 50 Pressure Modules

- 0.02% reference uncertainty Ranges from 1.00 in
- H₂O (0.24 kPa) to 10,000 psi (68.94 MPa)
- Gage, differential, dual range, absolute and vacuum measurement models
- Rugged cases protect the modules from
- Temperature compensated 0° C to 50° C



Fluke Process Calibrators in this catalog displaying the Pressure Enabled symbol display readings from the 750 Series Pressure

Recommended Accessories





719PRO



71XTRAP for 718, 719 & 719PRO

Included Accessories

Test Leads with Alligator Clips, Printed User Manual/CD-ROM, Fluid Trap, Carrying Case, 1/4 inch NPT to 1/4 inch ISO Adapter, Accessory Hose Kit with (2) 1/8 inch Quick Fit Adapters and 1 meter of hose, Traceable Certificate of Calibration.

Ordering Information

FLUKE-719PRO- 30G	Electric Pressure Calibrator, 30PSIG
FLUKE-719PRO- 150G	Electric Pressure Calibrator, 150PSI
FLUKE-719PRO- 300G	Electric Pressure Calibrator, 300PSI

FLUKE-71X-TRAP Liquid & Dirt Trap

for Fluke 718, 719 and 719Pro

Gauges

Fluke 700G Precision Pressure Test



Fluke 700G



Fluke 700G with 700PTP-1



Pressure Gauges designed to handle all your Pressure Calibration needs

With best-in-class accuracy and measurements, the Fluke 700G Series Precision Pressure Test Gauges were designed to handle all of your pressure calibration needs. The 700G Series Gauges are rugged and easy to use, with 23 models ranging from ±10 inH₂O/20 mbar to 10 000 psi/690 bar including absolute pressure

When combined with the Fluke 700PTPK or 700HTPK you've got a complete pressure testing solution for up to 600 psi (40 bar) with the PTP-1 pneumatic pump and up to 10000 psi (690 bar) with the HTP-2 hydraulic

- Precision pressure measurement from ±10 inH₂O/20 mbar to 10000 psi/690 bar
- Absolute pressure measurement ranges 15, 30, 100,
- Accuracy to 0.05% of full scale
- Reference class gauge accuracies to 0.04% of reading
- Easy to use, rugged construction for reliable performance
- CSA; Class 1, Div 2, Groups A-D rating
- 🕟 II 3G Ex ic IIB T6 Gc
- Combine the Pneumatic Test Pump Kits and Hydraulic Test Pump Kits with any Fluke-700G Series Gauge, 1000 psi (69 bar) or less, to make a complete pressure testing
- Log up to 8493 pressure measurements to memory (requires 700G/TRACK software)
- Three-year warranty

Specifications	
Size (HxWxD)	12.7 × 11.4 × 3.7 cm (5 × 4.5 × 1.5 in)
Pressure connection	1/4 in NPT Male
Housing/Weight	Cast ZNAL 0.56 kg (1.22 lb) with holster
Display	5.5 digits, 16.53 mm (0.65 in) high 20-segment bar graph, 0 to 100%
Power	Three AA alkaline batteries
Battery life	1,500 hours without backlight (continuous on), 2000 hours at slow sample rate

700G/TRACK Logging Software

The Fluke 700G/Track Data Logging Software (700G only) makes managing your instruments and calibration data easy to do. With the Fluke 700G-Track Software, you can gauge and record (log) multiple data sets, each of which is identified by a sequential run number. Copy screen images into your reports and documentation



- Use with Fluke 700G Series Gauges to perform real time data logging to a PC
- Download logging configurations to the 700G Series Gauges for a remote logging event
- Configure logging event reading rate, duration and measurement units
- Upload measurements logged remotely and display or export measurements
- Includes communication cable for connection to a PC

Recommended Kits



Fluke-700PTPK Pneumatic Test Kit

- Combine with any Fluke-700G Series Gauge, 1000 psi (69 bar) or less, to make a complete pressure testing kit
- Connect the 700G Series gauge directly to the included PTP-1 hand amua



Fluke 700HTPK Hydraulic Test Kit

- Combine with any Fluke-700G Series Gauge, 1000 psi (69 bar) range or greater, to make a complete pressure testing kit
- Generate pressure up to 10 000 psi, 690 bar with the included 700HTP-2 test pump
- Hard case protects pump and gauge and allows gauge to remain connected to the pump



Fluke-700PTPK2 Premium **Pneumatic Test Pump Kit**

- Pneumatic Hand Pump
- Premium, no tools required gauge
- One premium transmitter test hose kit and adapters



Fluke-700HTPK2 Premium **Hydraulic Test Pump Kit**

- Hydraulic Hand Pump
- Premium, no tools required gauge connector
- One premium transmitter test hose kit and adapters



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FLUKE

Fluke Calibration 2700G Series **Reference Pressure Gauges**



The Fluke Calibration 2700G Reference Pressure Gauges provide best-in-class measurement performance in a rugged, easy-to-use, economical package. Improved measurement accuracy allows them to be used for a wide variety of applications. It is ideal for calibrating pressure measurement devices such as pressure gauges, transmitters, transducers, and switches. In addition, they can be used as a check standard or to provide process measurements with data logging.

- Precision pressure measurement from 100 kPa (15 psi) to 70 MPa (10 000 psi)
- Accuracy to 0.02% of full scale
- Easy-to-use, rugged construction for reliable
- Combine with a Fluke PTP or HTP pump kit or P551X comparison test pump for a complete pressure testing
- One-year warranty

Transmitter Test Hose Kit • Easy to use premium pressure transmitter test hose kit for

Fluke 700MTH Premium

connection to 1/4" female metric/ 5000 psi rating

Recommended Kits

210 mbar

5 psi 350 mbar

4 bar

120 psi

400 psi

1200 psi

80 bar

2000 psi

4000 psi

8000 psi

10000 psi

10000 psi

690 bar

20000 psi

1035 bar

60 psi

120 psi

400 psi

1200 psi

90 psi

27 bar

2000 psi

138 bar

4000 psi

10000 psi

15000 psi

1035 bar

20000 psi

1380 har

- Includes 1/8" NPT connection for permanent mount to a calibrator or test pump



Fluke 700TTH5K Premium Transmitter Test Hose Kit

- Easy to use premium pressure transmitter test hose kit for use with female 1/4: NPT connections
- 5000 psi rating
- test pump

• Includes 1/8" NPT connection for permanent mount to a calibrator or

Included Accessories

700G: Manual on CD-ROM, Traceable Certificate of Calibration, 1/4" NPT to 1/4" ISO Adapter.

Ordering Information

Please refer to the table on the left for Fluke 700G Models

Datalogging

TRACK	Software and Cab for 700G
FLUKE-700HTPK	Hydraulic Test Pump Kit, 0 to 10000 psi/690 bar
FLUKE-700PTPK	Pneumatic Test Pump Kit, 0 to 600 psi/40 ba
FLUKE-	Premium Hydraul

700HTPK2 Test Pump Kit FLUKE-Premium **700PTPK2 Pneumatic Test** Pump Kit

Fluke-700TTH5K Premium Hose Kit,

Fluke-Premium Hose Kit 700TTH10K

Contact your local distributor for price and availability. fluke.com/findus

Fluke Calibration P5510 Pneumatic **Comparison Test Pump**



Fluke P5510

precise control for important calibration requirements and includes many features found in our line of pneumatic deadweight testers.

The P5510 Pneumatic Comparison Test Pump is designed

test instruments. This cost effective instrument provides

for testing pressure measuring instruments against master

One-year warranty.

Higher pressure ranges available:

Fluke P5513 Gas Comparison Test Pump Pressure range 0 to 20 MPa (3000 psi); Vacuum -80 kPa (-12 psi)

Fluke P5514B Gas Comparison Test Pump Pressure range 0 to 70 MPa (10k psi)

Fluke P5515 Gas Comparison Test Pump Pressure range 0 to 140 MPa (20k psi)

P5531 Dirt/Moisture Trap

Designed to mount directly on the deadweight tester and featuring an acrylic chamber for visibility of contaminates, this unit utilizes the standard test port adapters for easy instrument connections.

Calibration Solution

the min/max pressure.

Complete Bench Top Pressure

Combine P5500 Comparison Test Pumps with one

or more 2700G Reference Pressure Gauges for a

damping and auto off time interval as well as reset

inlet and outlet valves and precise screw press

The unique test port design of the P5500 Series allows for hand tight connection

• P5510: integrated pneumatic hand pump with pressure generation to 300 psi

• P5513: pneumatic pressure adjustment to 3000 psi (21 MPa) with fine adjust

• P5514B: hydraulic pressure generation and adjustment to 10000 psi (70 MPa)

• P5515: integrated hydraulic pressure generation and adjustment to 20 000

psi (140 MPa) with high volume priming pump and fine screw press

complete 0.02% accuracy calibration system The 2700G has an easy-to-use interface that allows

you to configure the sampling rate, tare value,

of the 2700G without using PTFE tape.

(2 MPa), vacuum to -12 psi (-80 kPa)

with fine screw press and reservoir



P5532 Dirt/Moisture Trap

This high pressure version is provided with an aluminum central chamber for safety and uses the standard test port adapters.

P5510 Pneumatic Calibrator, 2 MPA 2700G-1 (300 psi), 1 Gauge

Included Accessories

Fluke 2700G Gauges: 1/4 NPT Female

Female to M20X1.5 Adapter, Universal

AC Power Supply, USB Communication

to 1/4 BSP Male Adapter, 1/4 NPT

Cable, Manual on CD, Calibration

Calibration available for 2700G and

-15 to 15 psi

-15 to 30 psi

-12 to 100 psi

-12 to 300 psi

-12 to 500 psi

-12 to 1000 psi

0 to 3000 psi

0 to 5000 psi

0 to 10000 psi

Test Pump

Test Pump

P551X/2700G models (add "/C" to the

Reference Pressure Gauge,

Reference Pressure Gauge

Reference Pressure Gauge

Reference Pressure Gauge,

Reference Pressure Gauge,

Pneumatic Comparison

Pneumatic Comparison

0 to 10 000 psi (70 MPa)

0 to 20 000 psi (140 MPa)

Pump, Viton Seals

Pump, Viton Seals

Ethylene Propylene Seals option also

available, add -EP to the above model

Hydraulic Comparison Test

Hydraulic Comparison Test

Certificate showing traceability.

Optional: ISO 17025 Accredited

below model number).

2700G-

BG100K

2700G-

BG200K

2700G-

BG700K

2700G-

BG2M

2700G-

BG3.5M

2700G-

BG7M

2700G-

G20M

2700G-

G35M

2700G-

G70M

P5513-

P5514R-

140M*

numbers

20M

2M

Ordering Information

P5513 Pneumatic Calibrator, 20 MPA (3000 psi), 1 Gauge

P5514B- P5514B Pneumatic Calibrator, 70 MPA 2700G-1 (10000 psi), 1 Gauge **P5515-** P5515 Pneumatic

2700G-1 Calibrator, 70 MPA (10000 psi), 1 Gauge P551X-2700G Kits available with 3 gauge

option, replace -1 with -3 to the above model numbers.

P5531	Dirt/Moisture Trap		
	0 to 500 psi (35 bai		

Dirt/Moisture Trap 0 to 3.00 psi (210 bar)



Temperature Compensation 0°C to 50°C (32 °F to 122 °F) to rated accuracy For temperatures from -10° C to 0° C and 50° C to 55° C, add 0.005% FS/°C

10 in H₂O. 1. 15. 30 psi; any clean dry non-corrosive gas

Process Calibration Tools

luke 700G Precision Pressure Test Gauges

-10 to +10 inH₂O

-0.97 bar to 1 bar

-14 psi to 30 psi

-0.97 bar to 2 bar

-12 psi to 100 psi

-12 psi to 300 psi

-0.83 bar to 20 bar

-12 psi to 500 psi

-0.83 bar to 34 bar

-14 psi to 1000 psi

-0.97 bar to 69 bar

-0.97 bar to 140 bar

14 nsi to 3000 nsi

14 psi to 5000 psi

-0.97 bar to 340 bar

14 psi to 10000 psi

-0.97 bar to 690 bar

0 to 1 bar absolute

0 to 6.9 bar absolute

0 to 20 bar absolute

0 to 15 psia

0 to 30 psia

0 to 100 psia

0 to 300 psia

14 to +30 psi

12 to 100 psi

-0.83 to 6.9 bar

12 to 500 psi

14 to 1000 ps

14 to 3000 psi

14 to 5000 psi

-0.97 to 340 bar

-14 to 10000 psi

-0.97 to 690 bar

-0.83 to 34

0.97 bar to 200 bar

-14 to 2000 psi

20 mbar to 20 mbar

-70 mbar to 70 mbar

Resolution

0.001 inH₂O

0.001 mba

0.001 nsi

0.001 mba

0.001 bar

0.001 bar

0.01 psi

0.01 nsi

0.001 bar

0.01 psi

0.1 psi

0.001 bar

0.01 bar

0.1 nsi

0.1 nsi

0.01 bar

0.01 bar

0.001 psi

0.001 bar

0.001 psi

0.001 ba

0.01 psi 0.001 bar

0.01 psi

0.001 psi

0.001 bar

0.001 bar

0.001 bar

0.1 psi

0.1 psi

0.1 psi

0.01 bar

0.01 bar

0.001 bar

Accuracy

Positive Pressure ±0.1% of range

Positive Pressure ±0.05% of range

/acuum ±0.1% of range

0.05% of range

Positive Pressure ±0.04% of

Positive Pressure ±0.04% of

±0.1% of range

reading ±0.01% of range, Vacuum

reading ±0.01% of range, Vacuum ±0.1% of range

Vacuum ±0.1% of range

Range

Model

Fluke-700G01

Fluke-700G02

Fluke-700G04

Fluke-700G05

Fluke-700G06

Fluke-700G27

Fluke-700G07

Fluke-700G08

Fluke-700G10

Fluke-700G29

Fluke-700G30

Fluke-700G31

Fluke-700GA4

Fluke-700GA5

Fluke-700GA6

Fluke-700GA27

Fluke-700RG05

Fluke-700RG06

Fluke-700RG07

Fluke-700RG08

Fluke-700RG29

Fluke-700RG30

Fluke-700RG31

100, 300, 500, 1000 psi: any liquids or gases compatible with 316 stainless steel

Above 1000 psi: any non-flammable, non-toxic, non-explosive, non-oxidizing liquid or gas compatible with 316

Pressure Calibration

Pressure Calibration

Process Calibration Tools

FLUKE. — Calibration

Fluke Calibration 700HPPK Pneumatic Test Pump Kit





Generates 21 MPa (3000 psi) easily in the field, without liquid contamination or the hazard of a pressurized gas cylinder.

The Fluke Calibration 700HPPK Pneumatic Test Pump Kit generates and adjusts pneumatic pressures up to 21 MPa (3000 psi), without requiring a nitrogen bottle or other external pressure supply. It supplies pressure to devices under test (DUTs) that include transmitters, controllers, pilots, digital and analog gauges, and more. It's the perfect solution for generating high pressure in the field, where conditions and operating surfaces can vary.

The 700HPPK is the ideal choice for calibration technicians, test engineers, and instrument technicians working in industries like natural gas transmission and distribution, process, aerospace and defense, who need a simpleto-use, safe and portable pressure source that they can depend on in a wide variety of conditions.

The 700HPPK contains both a calibration manifold and high pressure pump to generate and finely adjust pressures. A second model, the 700HPP, is available for people who only prefer a high pressure source.

Use the 700HPPK Test Pump Kits with 2700G Reference Pressure Gauges or 700G Precision Pressure Gauges for a complete pressure calibration solution.

- Generate and adjust pneumatic pressures up to 21 MPa (3000 psi)
- Rugged, portable and stable enough to go anywhere on any surface
- Reaches pressure in 20 seconds to full scale into a 30 cm3 volume
- Detachable pressure adjustment system for adjusting pressure, connecting reference and test devices on bench and in the field, and isolating and venting pressure
- Easily switch out reference gauges without requiring PTFE tape or tools
- 2 m (6.5 ft) pressure line and assorted pressure fittings enable a wide variety of possible connections
- In-line filter and desiccant systems protect device from contamination from the DUT
- One-year warranty

General specifications	700HPP	700HPPK
Maximum working pressure	21 MPa, 3000 psi	
Time to generate full scale pressure with 10 cc volume (g)	20	
Weight	5.5 kg (12.2 lbs.)	7.2 kg (15.8 lbs.)
Dimensions	66 × 25 × 13 cm (26 in x 10 in x 5 in)	66 × 30.5 × 13 cm (26 in x 12 in x 5 in)
Reference gauge connection	1/4 NPT, quick connect	
Inlet supply contaminations protection filter	Desiccant filter	
DUT contamination protection filter	-	100 micron
Fine adjustment resolution	-	0.05% reading
Maximum leak rate	-	0.01% reading

Recommended Accessories S & 🕒 **№ 6** 700HPF-NPT **700HPM** High Pressure Pneumatic Calibration Premium Fittings NPT Fittings Manifold 🔿 😹 🗞 6-8 R. \$ 6-B 700HPF-BSP 700HPF-MET High Pressure High Pressure Premium Fittings, Premium Fittings, BSP Fittings Metric Fittings 2700G 700G Calibrator Gauges

Included Accessories

Fluke Calibration 700HPPK: Canvas Carrying Bag, High Pressure Pneumatic Quick Service Kit (seals for pump), Dry Pac Refill, Silicone Grease, High Pressure Hose, Test Port Adapters

Ordering Information

Ordering Inform	iation
700HPPK-NPT	High Pressure Pneumatic Pump/ Comparator, 21 MPa (3000 psi), NPT
700HPP-NPT	High Pressure Pneumatic Test Pump, 21 MPa (3000 psi), NPT
700HPPK-BSP	High Pressure Pneumatic Test Pump/ Comparator, 21 MPa (3000 psi), BCP
700HPP-BSP	High Pressure Pneumatic Test Pump, 21 MPa (3000 psi), BSP
700HPPK-MET	High Pressure Pneumatic Pump/ Comparator, 21MPa (3000 psi), Metric
700HPP-MET	High Pressure Pneumatic Test Pump, 21MPa (300 psi), Metric

Contact your local distributor for price and availability. fluke.com/findus

Fluke Calibration P3000 Deadweight Testers



The P3000 Series is the culmination of over 50 years of experience in the production and design of high performance pressure standards.

With features designed to improve accuracy and performance, increase reliability and simplify operation, these deadweight testers can be used to calibrate virtually any pressure sensing device, including transducers, transmitters, gauges or pressure switches. All units provided with accredited calibration.

P3000 Pneumatic Deadweight Tester

- High performance gas deadweight testers with unique suspended piston design for vacuum calibration.
- 0.015% of reading accuracy standard (0.008% optional)
- 3 to 500 psi (0.2 to 35 bar) pressure
- Optional low range 0.03 to 1 bar vacuum (1 to 30 inHg)
- Integrated vacuum and pressure pump available to 2 MPa (300 psi)

P3100 Hydraulic Deadweight Tester

- Highly accurate oil deadweight tester with quick and easy-to use single and dual piston deadweight models
- Pressure ranges to 140MPa (20000 psi, 1400 bar)
- 0.015% of reading accuracy standard (0.008% optional)
- Built in pressure generation and adjustment
- Single or dual piston formats

P3200 Hydraulic Deadweight Tester

- Hydraulic deadweight tester specially designed to use water as a test medium.
- Pressure ranges to 70MPa (10000 psi, 700 bar)
- 0.015% of reading accuracy standard (0.008% optional)
- Built in pressure generation and adjustment is standard
- Single or dual piston formats
- Water media

Accuracy*		
$\pm 0.015\%$ of reading ($\pm 0.008\%$ optional) *Accuracy based on% of reading from 10% to 100% of the piston range when used in accordance with the corrections found on the calibration certificate. Below 10% \pm (accuracy class) × 10% of the piston range.		
Mass and PCU Materials of Construction		
Standard weight material	Series 3 non-magnetic au	stenitic stainless steel
Weight density	7.8 g/cm ³	
Optional fractional weights	Solution heat treated alur	minum
Weight density	2.7 g/cm ³	
Models P3011, P3012, P3013, P3022, P3023, P3025 (V)	Piston Material: Cylinder Material: Coefficient of Expansion:	Ceramic Martensitic steel 11 ppm/° C
Models P3014, P3015, P3025 (P) P3031, P3032 (P & V)	Piston Material: Cylinder Material: Coefficient of Expansion:	Tungsten carbide Martensitic steel 16.5 ppm/° C

PressCal Software

PressCal software provides a quick and effective solution to enhance the pressure measurement uncertainty of Deadweight Testers.

PressCal features an easy-to-use user Interface that allows you to enter all the necessary corrections and parameters to accurately determine the pressure generated by the DWT.



PressCal also provides:

- Automatic certificate generation
- Customer details management
- Real-time auditing
- Choice of 12 pressure units

Recommended Accessories



5540 Metric & 5541

BSP Adapter Sets

P5543 Angle Adapter

Included Accessories

ISO 17025 Accredited Calibration Certificate, Operating Fluid (where applicable), Spare Seals, Adaptors for 1/8, ¼, 3/8, ½ NPT and BSP, and Metric Adaptors (M20 and M14).

Ordering Information

* -P indicates built-in pump optional.

P3011-KPA-P* Vacuum Deadweight Tester (-100 kPa)

P3011- Vacuum Deadweight INHG-P* Tester (-30 inHg)

P3011- Vacuum Deadweight MBAR-P* Tester (-1000 mbar) P3011- Vacuum Deadweight

MMHG-P* Tester (-760 mmHg)
P3012-KPA-P Gas Deadweight Tester

100 kPa, with Pump
P3012- Gas Deadweight Tester
MBAR-P 1000 mbar, with Pump

P3012- Gas Deadweight Tester, INH2O-P 400 inH₂O, with Pump

P3013-KPA-P Gas Deadweight Tester, 200 kPa, with Pump

P3013- Gas Deadweight Tester, MBAR-P 2000 mbar, with Pump P3013- Gas Deadweight Tester, INH2O-P 800 inH₂O, with Pump

P3014- Gas Deadweight Tester, KGCM2-P 10 kgf/cm2, with Pump

P3014-PSI-P Gas Deadweight Tester, 150 psi, with Pump P3014-KPA-P Gas Deadweight Tester.

1000 kPa, with Pump
P3014-MPA-P Gas Deadweight Tester,

MPa, with Pump
P3015-BAR-P* Gas Deadweight Tester,

P3015- Gas Deadweight Tester, KGCM2-P* 35 kgf/cm2

P3015-PSI-P* Gas Deadweight Tester, 500 psi

P3015-KPA-P* Gas Deadweight Tester,

P3015-MPA-P Gas Deadweight Tester, 3.5 MPa

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Fluke 730G Smart Digital Pressure Calibrator



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A compact, digital pressure calibrator solution for bench or field.

The Fluke 730G Smart Digital Pressure Calibrator with internal HART communication, designed in a pressure gauge form. In conjunction with a pressure test pump, the 730G enables high-efficiency and high-accuracy measurement and calibration of pressure gauges, pressure switches, pressure transmitters, which makes it ideal for mobile metrology labs, metrology institutes and enterprises to establish pressure laboratories.

- Pressure measurement from ±10 inH₂O/2.5 kPa to 10000 psi/69 MPa
- Four absolute pressure measurement range 15 PSIA (103 kPa), 30 PSIA (207 kPa), 100 PSIA (690 kPa), 300 PSIA (2 MPa)
- Pressure measurement accuracy 0.05% of full scale, 0.02% optional and 0.01% current and voltage accuracy
- Current measurement range: 0-24mA; voltage measurement range: 0-30VDC
- 24V loop powered, no external power supply needed
- Storage up to 128 sets of calibration data
- Compatible with 730G/PCSW management software for paperless reporting.
- Combine with the Fluke 730 series test pumps for high accuracy and precise pressure measurement for up to 10,000 psi.

Specifications		
Size (HxWxD) 155 mm x 130 mm x 44 mm (6.1" x 5.1" x 1.7")		
Pressure connection	1/4 in NPT Male	
Weight	850g (1.87 lb)	
Display	LCD	
Power	One rechargeable Lithium battery	
Battery life	25 hours continuously (without 24 V loop power), or 8 hours continuously (24 V loop power)	

Recommended Kits Combine with any Fluke 730G Series Calibrator



Fluke-730LTP/40K

- Pressure range -40 KPa to 40 KPa
- Ultra-fine precision adjustment to support low pressure calibration
- Special insulation to reduce the influence of external temperature environment



Fluke-730LTP/600K

- Pressure range -95KPa to 600KPa
- Pressure is generated by the combination of the pressure rod and screw for faster and smoother pressure increase and decrease
- Safely switch between pressure and vacuum



Fluke-730PTP/10M

- Pressure range -95 KPa to 10 MPa
- Multi-stage boost system design makes the process 5 times more efficient.
- Safety lock ensures safe switching between positive and negative pressure



Fluke-730HTP/70M

- Pressure range 0 KPa to 70 MPa
- The screw press design supports high pressure range with less effort.
- Fine pressure adjustment capability with shut-off valve for stable measurements.

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Fluke 729 Pro Automatic Pressure Calibrator



Portable pressure calibrator with replaceable module

- Automatic pressure generation and regulation to 1000psi
- Replaceable pressure control modules
- Built-in test template, one-key calibration
- HART communication
- Pressure leakage testing
- Automatic fine-pressure adjustment, automatic pressure stabilization
- Powerful, replaceable Li-ion battery
- Quick pressure release valve with a muffler
- Optional portable manifold with quick connection
- Extend measurement range with 750P Series pressure modules
- Measure temperature with 720RTD probe
- Bright dual-three-channel /color graphic display
- Weight <5kg
- Rugged and portable design with standard 3-year warranty
- Upload documented test results to DPCTrack2™
- Calibration Management Software to manage your instrumentation, create scheduled tests and reports and mange calibration data.



Pressure control range (-14 to 1000	(-14 to 600) psi
) psi (-14 to 000) psi
Control stability 0.005% of F	S, minimum
Replaceable pressure control modules 6 modules	4 modules
Warranty 3 years	

Internal pressure measurement module		
Pressure module	Pressure type	Range
FLK-PMM-200K	Gauge	(-15 to 30) psi
FLK-PMM-200KA	Absolute	(0 to 30) psi
FLK-PMM-2000K	Gauge	(-14 to 300) psi
FLK-PMM-4000K	Gauge	(-14 to 600) psi
FLK-PMM-7000K	Gauge	(-14 to 1000) psi
FLK-PMM-7000KA	Absolute	(0 to 1000) psi

Ordering Information	
FLK-729Pro 4M	Fluke

Automatic Pressure calibrator, 4Mpa

729 Pro

FLK-729Pro 7M Fluke 729 Pro

Pressure Calibrator, 7Mpa

FLK-PMM-200K Replaceable pressure module, (-15 to 30) psi

FLK-PMM-200KA Replaceable pressure module.

pressure module, absolute, (0 to 30)

FLK-PMM-2000K Replaceable pressure module, (-14 to 300) psi

FLK-PMM-4000K Replaceable

(-14 to 600) psi

FLK-PMM-7000K Replaceable pressure module (-14 to 1000) psi

FLK-PMM- Replaceable 7000KA pressure module,

absolute, (0 to 1000) psi

Contact your local distributor for price and availability. fluke.com/findus



Process Calibration Tools Pressure Calibration Pressure Calibration Pressure Calibration

Fluke 729 Automatic Pressure Calibrator





Fluke 729











Portable automatic pressure calibrator simplifies pressure calibration

The Fluke 729 Automatic Pressure Calibrator has been designed specifically with process technicians in mind to simplify the pressure calibration process and provide faster, more accurate test results. Technicians know that calibrating pressure can be a time consuming task, but the 729 makes it easier than ever with an internal electric pump that provides automatic pressure generation and regulation in an easy-to-use, rugged, portable package.

The Fluke 729 can also automatically test multiple pressure test points and automatically document the results. Calibration is as easy as typing in the starting and ending pressure and the number of test points and tolerance level; the 729 does the rest.

With three ranges to choose from 30 psi (2 bar, 200 kPa), 150 psi (10 bar, 1 MPa) and 300 psi (20 bar, 2 MPa), the Fluke 729 Automatic Pressure Calibrator is designed to perform when and where you need.

- Automatic pressure generation and regulation to
- Easily document the process using on-board test
- Automatic internal fine-pressure adjustment
- Measure, source and simulate 4 to 20 mA signals
- 24 V loop power for powering transmitters for tests
- HART™ communication for testing HART smart
- Built-in leak testing for verifying test setups for leakage Fluke Connect[™] App compatibility
- Measure temperature with optional 720RTD probe
- Measure VDC for testing 1 V DC to 5 V DC output
- Compatible with Fluke 700G Series and 750 Series Pressure Modules
- Upload documented test results to DPCTrack2™
- Calibration Management Software to manage your instrumentation, create scheduled tests and reports and manage calibration data
- Three-year warranty

Pressure specification*	
One-year specification	0.02% of full scale
Control specification	0.005% full scale minimum
*See manual for detailed specifications	

Model	Psi range, resolution	Bar range, resolution	kPa range, resolution	Comment
729 30G	-12.0000 to 30.0000 psi	-0.82737 to 2.06842 bar	-82.737 to 206.843 kPa	No wireless communication
729 150G	-12.000 to 150.000 psi	-0.8273 to 10.3421 bar	-82.73 to 1034.21 kPa	No wireless communication
729 300G	-12.000 to 300.000 psi	-0.8273 to 20.6843 bar	-82.73 to 2068.43 kPa	No wireless communication
729 30G FC	-12.0000 to 30.0000 psi	-0.82737 to 2.06842 bar	-82.737 to 206.843 kPa	Wireless communication for Fluke Connect™
729 150G FC	-12.000 to 150.000 psi	-0.8273 to 10.3421 bar	-82.73 to 1034.21 kPa	Wireless communication for Fluke Connect™
729 300G FC	-12.000 to 300.000 psi	-0.8273 to 20.6843 bar	-82.73 to 2068.43 kPa	Wireless communication for Fluke Connect™

Recommended Accessories





720URTDA Universal RTD Adapter for 721 and 719Pro

Included Accessories

Soft Case, Stackable Test Leads, AC280 Hook Clips, Alligator Clips, Test Probes, Magnetic Hanger Kit, Carrying Strap, Power Supply, Rechargeable Battery (installed), Hose Kit with Push Fit Adapters, Hanging Clip, USB Cable, 1/8 in FNPT to 1/4 in FNPT Adapter, 1/8 in FNPT to F-M20 Adapter, 1/8 in FNPT to 1/4 in FBSP Adapter, PTFE Tape, (2) Sintered Filters, Liquid Dirt Trap, Water Trap Drain and Valve Tuning Hoses, Wireless Adapter (FC Models only), Quick Start Guide, Safety Sheet.

FLK-729 30G 30 psi, 2 bar Automatic

Ordering Information

	Pressure Calibrator
FLK-729 150G	150 psi, 10 bar Automatic Pressure Calibrator
FLK-729 300G	300 psi, 20 bar Automatic Pressure Calibrator
FLK-729 30G FC	30 psi, 2 bar Automatic Pressure Calibrator with Fluke Connect™
FLK-729 150G FC	150 psi, 10 bar Automatic Pressure Calibrator with Fluke Connect™
FLK-729 300G FC	300 psi, 20 bar Automatic Pressure Calibrator with Fluke Connect™
FLUKE-729/ 750SW BU	300 psi, 20 bar Automatic Pressure Calibrator and DPCTRACK2 Software Bundle

Contact your local distributor for price and availability. fluke.com/findus

Fluke Connect (FC) available in selected countries. Contact your local Fluke distributors to find out more.



Fluke 805 FC Vibration Meter

Forget the pens, think meter





Fluke 805 FC



The Fluke 805 FC is not a vibration pen; it's a meter. A Fluke meter that eliminates the confusion of vibration screening and provides reliable measurements you can trust to make critical go or no-go maintenance decisions. With the Fluke 805 FC, you can identify the strength and severity of vibration and easily track data over time to monitor an asset's condition.

- Innovative sensor design minimizes measurement variations caused by device angle or contact pressure
- Consistent data quality at both low and high frequency ranges
- Four-level severity scale assesses urgency of problems for overall vibration and bearing condition
- Exportable data via USB
- Trending in Microsoft™ Excel using pre-built templates
- Overall vibration measurement (10 Hz to 1000 Hz) for acceleration, velocity and displacement units of measurement for a wide variety of machines
- Crest Factor+ technology provides reliable bearing assessment using direct sensor tip measurements between 4000 Hz
- Compare vibration levels with ISO-10816 severity scales and store results to the Fluke Connect™ Cloud
- Fluke Connect™ Share-Live™ video call
- Colored lighting system (green, red) and on-screen comments indicate how much pressure needs to be applied to take measurements
- Temperature measurement with Spot Infrared Sensor increases diagnostic capabilities
- On-board memory holds and saves up to 3500 measurements
- One-year warranty

Specifications			
Specifications	Low frequency range (overall measurement)	10 Hz to 1000 Hz	
	High frequency range (CF+ measurement)	4000 Hz to 20000 Hz	
	Severity levels	Good, Satisfactory, Unsatisfactory, Unacceptable	
/ibration meter	Vibration limit	50 g peak (100 g peak-peak)	
	A/D converter	16-bit	
	Signal to noise ratio	80 dB	
	Sampling rate	Low frequency: 20 000 Hz; High frequency: 80 000 Hz	
	Real-time clock backup	Coin battery	
	Sensitivity	100 mV/g ±10%	
	Measurement range	0.01 g to 50 g	
Canaca	Low frequency range (overall measurement)	10 Hz to 1000 Hz	
Sensor	High frequency range (CF+ measurement)	4000 Hz to 20000 Hz	
	Resolution	0.01 g	
	Accuracy	At 100 Hz ±5% of measured value	
Infrared thermometer	Range	-20° C to 200° C (-4 °F to 392 °F)	
(temperature	Accuracy	±2° C (4 °F)	
measurement)	Focal length	Fixed, at ~3.8 cm (1.5 in)	
External sensor	Frequency range	10 Hz to 1000 Hz	
Supported, but not	Bias voltage (to supply power)	20 V DC to 22 V DC	
orovided)	Bias Current (to supply power)	Maximum 5 mA	
	External interfaces	USB 2.0 (full speed) communication	
Firmware	Data capacity	Database on internal flash memory	
	Memory	Up to 3500 measurements	
Environmental	IP rating	IP54	
Liivii Oliillelitai	Drop test	1 meter (3.38 ft)	
	Battery type	AA (2) Alkaline or Lithium-ion 2 V DC	
	Battery life	250 measurements	
General specifications	Size (LxWxH) and Weight	25.72 × 16.19 × 9.84 cm (10.13 × 6.38 × 3.875 in), 1.16 kg g (2.55 lb)	
	Connectors	USB mini-B 7-pin, stereo audio output jack (3.5 mm Audio Plug), external sensor jack	

Fluke Connect (FC) available in selected countries. Contact your local Fluke distributors to find out more

Recommended Accessories



Fluke 805ES External Assembly Vibration Senso

Fluke 820-2 LED Stroboscope

The Fluke 820-2 LFD Stroboscope is a simple, easy-to-use tool to stop motion for measurement and diagnostic purposes.

Investigate and observe potential mechanism failure with confidence on a variety of machinery, in a wide range of industries, without making physical contact with the machine. The Fluke 820-2 LED Stroboscope is a rugged, compact, portable strobe with high intensity LED head, ideal for stop motion diagnostics, mechanical troubleshooting, and process or product research and development.

- High intensity 7-LED array—4800 lux @ 6000 FPM/30 cm (flashes per minute)
- High efficiency LED solid-state light source with uniform flash characteristics allow for higher flash rates-30-300 000 FPM
- Digital pulse width modulation for exceptionally sharp images at high speeds
- Rugged, durable design utilizes solid-state LEDs with no filaments, gases, hollow cavities, or glass
- Quartz-accuracy control system provides high accuracy -±(0.02% + 1 digit)
- Multi-line LCD display
- Check the rotating speed of machinery without physical contact or need for reflective tape

Included Accessories

USB Cable, Storage Case, Belt Holster, Quick Reference Guide, CD-ROM (includes MS Excel Template and Documentation) and Two AA Batteries.

Ordering Information

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FLUKE- 805FC	Fluke Connect™ Vibration Meter
FLUKE 805ES	External Vibration Sensor for 805 Vibration Meter
FLK-820-2	LED Stroboscope

Contact your local distributor for price and availability. fluke.com/findus

Fluke 810 Vibration Tester

Take a vibration expert along







Get answers now!

The Fluke 810 Vibration Tester is the most advanced troubleshooting tool for mechanical maintenance teams who need an answer now. It is a unique new kind of troubleshooting tool, engineered to detect and evaluate the most common mechanical problems.

The Fluke 810 Vibration Tester uses a simple step-by-step process to report on machine faults the first time measurements are taken, without prior machine history.

- Easily determine the root cause, location and severity of common mechanical faults
- Efficiently prioritize and plan equipment repair or replacement
- Effectively deploy maintenance resources at the point of greatest impact
- Three-year warranty

Simple 3 Step Process

The Fluke 810 helps you locate and diagnose common mechanical problems and prioritize repair actions in three simple steps:



1. Setup: Vibration testing has never been easier. The Fluke 810 asks for basic machine information you already know, like RPM and horsepower. Its onboard info feature gives you field tips for setting up and taking measurements like a professional.

Diagnostic specifications

Motor rotational speed range

Ingress Protection (IEC 60529)

Onboard storage capacity

Tachometer specifications

Sensor specifications

Analysis for

Standard faults

Diagnosis details

A/D converter

Dynamic range

FFT resolution

Sensor type

Tachometer type

Tester specifications



2. Measure: The Fluke 810 easily fits into your maintenance routine. Use it to quickly troubleshoot problems or monitor machine condition.

Motors, fans, blowers, belts and chain drives, gearboxes, couplings, centrifugal pumps, piston pumps, sliding vane pumps, propeller pumps, screw pumps, rotary thread/gear/lobe pumps, piston compressors,

centrifugal compressors, screw compressors, closed coupled machines,

Plain-text diagnosis, fault severity (slight, moderate, serious, extreme),

Unbalance, looseness, misalignment and bearing failures

Lithium-ion, rechargeable, 8 hours operating life

2 GB internal + user accessible slot for additional storage

Tri-axial accelerometer , 100 mV/g (±5%, 25° C (77° F))

200 rpm to 12000 rpm

4 channel, 24 bit

Laser Diode Class 2

IP54

128 dB

800 lines

repair details, cited peaks, spectra



3. Diagnose: Fix it right the first time with the press of a button, the Fluke 810 identifies the root cause, its location, and the problem's severity.

Recommended Accessories



Tachometer



Vibration Senso



SBP810 **Battery Pack**

810SMM



Pads (Pack of 10)

Viewer PC Software

Sensor Magnetic

Mount

- Store and track your data
- Generate diagnostic reports and track the severity of your machine's condition
- Import and store JPEG images



Interactive, self-paced training on DVD

Learn more about the basics of vibration and how to fully utilise the features and functionality of the Fluke 810. Fluke has partnered with Mobius Institute, an industry leader in vibration training, to develop an interactive training DVD included with each Fluke 810.

Included Accessories

Tri-axial TEDS Accelerometer, Accelerometer Magnet Mount, Accelerometer Mounting Pad Kit with Adhesive, Accelerometer Quick Disconnect Cable, Laser Tachometer and Storage Pouch, Smart Battery Pack with Cable and Adapters, Shoulder Strap, Adjustable Hand Strap, Viewer PC Application Software, Mini-USB to USB Cable, Getting Started Guide, Illustrated Quick Reference Guide, User Manual CD, Instructional Training DVD, Hard Carrying Case.

Ordering Information

FLUKE-810 Vibration Tester

Mechanical Maintenance

Contact your local distributor for price and availability. fluke.com/findus



Fluke 802EN Vibrator Meter

P 15 223

Fluke 802EN

Make go or no-go predictive maintenance decisions with confidence. The Fluke 802EN Vibration Meter allows you to easily assess the state of in-service equipment and determine whether maintenance is required. With only one button you can switch between displacement, velocity, and acceleration measurements.

- Three test modes to meet complex test environment in industrial field
- High repeatability to ensure accuracy of continuous testing
- One-button measurement to get assessment result in 6 seconds
- 99 sets of data storage, review in real-time



		802EN	
Internal Piezoelectric Accel	erometer		
Sensitivity (typical)		10.00 mV / m/s ² ± 5% (1 g = 9.8 m/s ²)	
Measurement			
	Range	0.1 m/s² to 199.9 m/s² peak (rms √2)	
Acceleration	Resolution	0.1 m/s ²	
, receive action	Accuracy	± (5 % + 2 dgt) (LO: 10 Hz to 1 kHz) ± (10 % + 5 dgt) (HI: 1 kHz to 10 kHz)	
	Range	0.1 mm/s to 199.9 mm/s rms	
Velocity	Resolution	0.1 mm/s	
	Accuracy	± (5% + 2 dgt) (10 Hz to 1 kHz)	
	Range	0.001 mm to 1.999 mm peak-peak (rms 2√2)	
Displacement	Resolution	0.001 mm	
	Accuracy	± (5 % +2 dgt) (10 Hz to 1 kHz)	
Piezoelectrical Accelerometer	Typical frequency response	10 Hz to 15 kHz	
	Acceleration	g, m/s²	
Amplitude Units	Velocity	mm/s	
	Displacement	mm	
	Operating temperature	-10 °C to 50 °C	
	Storage temperature	-30 °C to 60 °C	
	Operating humidity	30% to 90% RH (non-condensing)	
	Operating altitude	2,000 m	
Environment	Storage altitude	12,000 m	
Environment	Ingress Protection	IP 40	
	Vibration limit	500.0 m/s² peak	
	Drop test	1 m	
	Electromagnetic Compatibility (EMC)	International IEC 61326-1: Portable, Industrial Electromagnetic Environment; CISPR 11: Group 1, Class A	
General Specifications			
Battery		2 AAA, IEC LR03	
Battery life		25 hrs for measurement	
Dimensions (L x W x H)		24.1 x 7.1 x 5.8 cm	
Weight		220 g	
Audio port		Stereo audio output jack (3.5 mm Audio Plug)	
External sensor port		M12 plug	

Included Accessories

Soft case, Quick reference guide, Safety information, Two (2) AAA batteries

Ordering Information

FLUKE-802EN

Vibration Meter

FLUKE-802ES

External Sensor for

Contact your local distributor for price and availability. fluke.com/findus

Fluke 831 Laser Shaft Alignment Tool



Fluke 831

The rugged Fluke 831 has an intuitive guided user interface that enables quick and complete shaft alignment without advanced training or complicated programs. And while it's easy to use, laser alignment with the Fluke 831 is powerful enough for the skilled technician.

- Fast, easy, and precise alignment that adapts to your needs.
- Rugged build and the highest-in-class IP rating.
- Single-laser technology for the fastest, most accurate laser alignment.
- Cloud connection enables real-time collaboration.
- Use up to 8 measurement points to achieve precision alignment on vertical machines



	831
Specifications	
Measurement principle	Coaxial, reflected laser beam
Environmental protection	IP68 (Tablet) and IP65 (Sensor)
Operating Temperature range	Up to 50°C
Detector Resolution	1 μm (0.04 mil) and angular 10 μRad
Detector Error (avg)	< 2%
Inclinometer measurement range	0° to 360°
Inclinometer Resolution	0.1°
Inclinometer Error	0.3% full scale
Laser Type	Class 2 Red visible laser, <1 mW
Camera	13.0 MP, AutoFocus (Main camera); 5.0 MP (Front camera)
Battery time	Up to 11 hours (tablet); Up to 10 hours (sensor)
Weight	710 g (Tablet); 210 g (Sensor); 65 g (reflector)
External Interface	Wireless communication (sensor)
Display	8" TFT Touchscreen, 1920 x 1200 Pixel

Included Accessories

Fluke 831 rugged device, sensALIGN 3 sensor with cover, reflector prism with cover, ballistic carrying case, chaintype mounting bracket with 150 mm support posts (2X), 300 mm support posts (4X), tape measure, lens cleaning cloth, device power cable and adapter, PC cable, sensor micro power cable and adapter, USB drive, USB drive cable, safety information sheet and Quick Reference Guide

Ordering Information

Fluke-831 ROW Laser Shaft

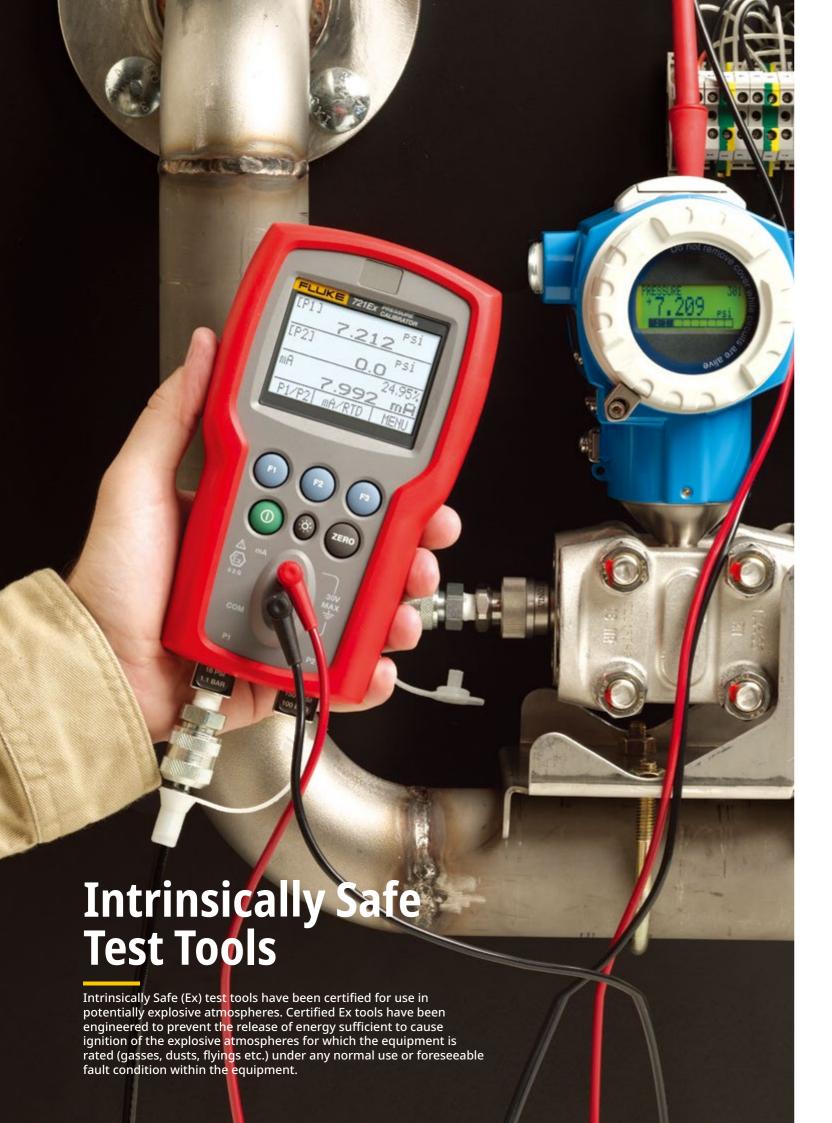
Alignment Tool
SHIMS

FLUKE-830/ SHIMS

distributor fo

Contact your local distributor for price and availability. fluke.com/findus





Intrinsically Safe Test Tools

for Hazardous Areas

Intrinsically Safe (Ex) test tools have been certified for use in potentially explosive atmospheres. Certified Ex tools have been engineered to prevent the release of energy sufficient to cause ignition of the explosive atmospheres for which the equipment is rated (gasses, dusts, flyings etc.) under any normal use or foreseeable fault condition within the equipment.



ATEX – The primary intrinsically safe standard, which has been set in the European Union with the Directive 94/9/EC, commonly called ATEX (ATmosphères EXplosibles).

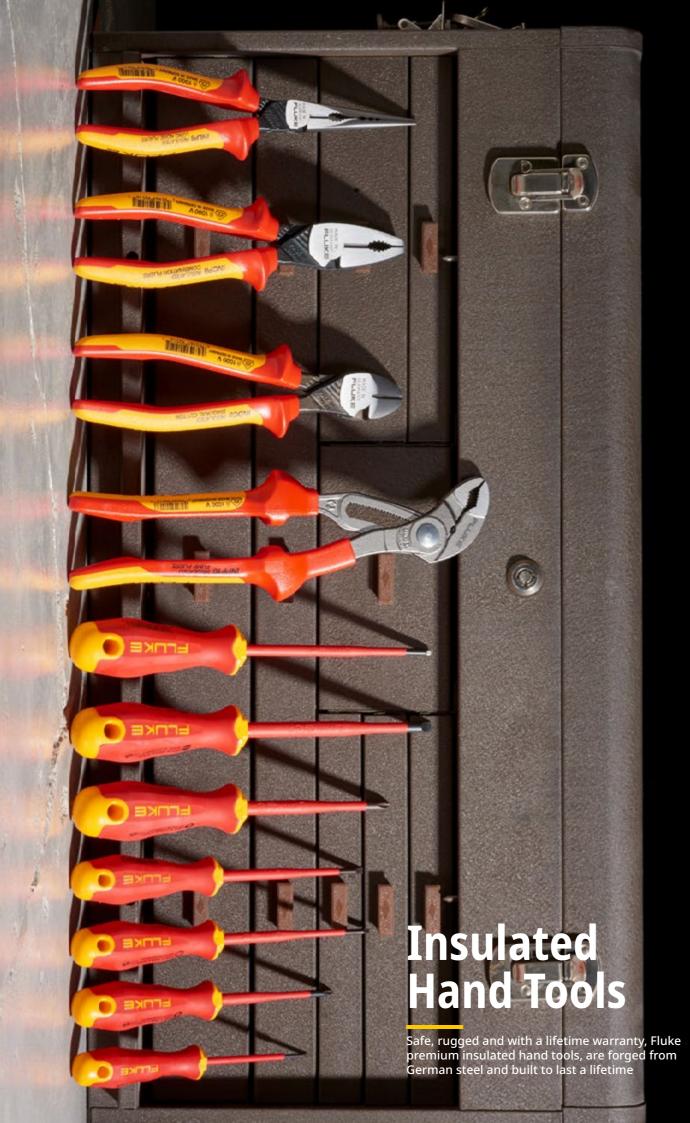
	Fluke Products	ATEX certified	Certification
		ATEX certified	Certification
0.5	28 II Ex Intrinsically Safe True-RMS Multimeter	II 2G Ex ia IIC T4 Gb I M1 Ex ia I Ma	Class I, Div 1, Groups A,B,C,D T4 Class I, Zone 1, AEx ia IIC T4 Ex ia IIC T4 IP67
61	718Ex Intrinsically Safe Pressure Calibrator	EX II 1G Ex ia IIC T4 Ga	I.S. Class I, Div 1, Groups A,B,C,D T4
	721Ex Intrinsically Safe Precision Pressure Calibrator	EII 2G Ex ia IIB T3 Gb	IECEx: Ex ia IIB T3 Gb
	750PEx Intrinsically Safe Pressure Modules	II 1G Ex ia IIC T4 Ga	IECEx: Ex ia IIC T4 Ga
	568Ex Intrinsically Safe Infrared Thermometer	EI 2G Ex ia IIC T4 Gb	Class I, Div 1, Groups A,B,C,D, T4 Class I, Div 2, Groups A,B,C,D, T4 Class I, Zone 1, AEx ia IIC T4 Gb
	700G Series Intrinsically Safe Pressure Gauges	EII 3G Ex ic IIB T6 Gc	CSA Class I, Div. 2 Groups A,B,C,D
	1551A Ex/1552A Ex Intrinsically Safe "Stik" Thermometers	II 2G Ex ib IIB T4 Gb	IECEx: Ex ib IIB T4 Gb
	Fluke FL-45 Ex Intrinsically Safe Flashlight	II 1G Ex ia IIC T5 Ga I M1 Ex ia I Ma	Class I Div 1 and 2 Group A,B,C,D Class II Div 1 and 2 Group E,F,G Class III T5 IP67
	Fluke FL-120 Ex Intrinsically Safe Flashlight	II 1G Ex ia IIC T4 Ga I M1 Ex ia I Ma	Class I Div 1 and 2 Group A,B,C,D Class II Div 1 and 2 Group E,F,G Class III T4 IP6X
	Fluke FL-150 Ex Intrinsically Safe Flashlight	II 1G Ex ia IIC T4 Ga I M1 Ex ia I Ma	Class I Div 1 and 2 Group A,B,C,D Class II Div 1 and 2 Group E,F,G Class III T4 IP67
0	Fluke HL-200 Ex Intrinsically Safe Headlamp	II 1G Ex ia IIC T4 Ga	Class I Div 1 and 2 Group A,B,C,D Class II Div 1 and 2 Group E,F,G Class III T4 IP67



Ordering Inform	nation
FLUKE-28IIEX/ ETL	Intrinsically Safe True-RMS Digital Multimeter
FLUKE-718EX (30, 100, 300G ranges)	Intrinsically Safe Pressure Calibrator
FLUKE-721EX	Intrinsically Safe Pressure Calibrator
FLUKE-750PEX (750P: 01, 05, 06, 09, 24, 27, 29, A4Ex)	Intrinsically Safe Pressure Modules
FLUKE-568EX	Intrinsically Safe Infrared Thermometer
FLUKE-700G	Pressure Test Gauges (23 ranges) 0 to 10 in H ₂ O up to
FLUKE-1551AEX FLUKE-1552AEX	10 000 psi "Stik" Thermometer 1551A: -50 to 160C 1552A: -80 to 300C
FLUKE-568EX	Intrinsically Safe Infrared Thermometer
FL-45 EX	45 Lumen Intrinsically Safe Flashlight
FL-120 EX	120 Lumen Intrinsically Safe Flashlight
FL-150 EX	150 Lumen Intrinsically Safe Flashlight
HL-200 EX	200 Lumen Intrinsically Safe Headlamp

Contact your local distributor for price and availability. fluke.com/findus





Fluke Insulated Hand Tools



Fluke Insulated Screwdrivers

Precision insulated tools fit and rip the fastener properly to apply maximum torque without damage to the head. Hardened chromium-molybdenum-vanadium steel blades minimize wear. Fluke offers three styles and multiple sizes—seven drivers in all. All certified to 1000 Volts ac and 1500 V dc. Every screwdriver individually tested to 10000 volts.

- Ergonomic handle adapts to the user's hand, causing less strain and work fatigue and providing maximum torque
- The full length, impact-proof handle core is coated with soft-grip outer material and has a hanging hole for extra security and an anti-roll handle design
- The slim insulated shaft allows access in hard to reach areas
- All blades are manufactured from German CMV steel for superior durability



Fluke insulated pliers and cutters give you a range of options when the job requires jaws with bite. All Fluke pliers and cutters are built with German CMV steel.

Long Nose Pliers

- Unique milled wave pattern gripping zones
- Straight, half-round, long and slim knurled jaws, specially profiled
- Side cutting edge for wire cutting

Heavy-Duty, High-Leverage Diagonal Cutter

- Cuts hard materials including steel and piano wire
- Power joint and precision cutting edges

Fast Adjust Pump Pliers

- 27 jaw adjustment steps for more accurate gripping of the workpiece with less slippage than other designs
- Self-locking on pipes and nuts: no slipping on the workpiece, with low hand force required
- Gripping surfaces with teeth hardened to HRC61 for low wear and reliable gripping
- Box-joint design; high stability because of double guide
- Pinch guard that prevents operators' fingers from being pinched

Heavy Duty Combination Pliers

- Secure hold by aggressive serrated jaws and 4-point gripping hole
- Slim shape for better access to wires in tight spaces
- Powerful gripping jaw, yet 20% lighter weight than other designs





Ordering Information

ISLS5

ISLS8

IPHS1

IPHS2

INDC8

INPP10

INCP8

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ISLS3 Insulated Slotted Screwdriver 3/32x3 in, 2.5 mm x 75 mm, 1000V

> Insulated Slotted Screwdriver 5/32x4 in,

4 mm x 100 mm, 1000V Insulated Slotted

Screwdriver 1/4x5 in, 6 mm x 125 mm, 1000V

Insulated Phillips Screwdriver #1, 3 in, 75 mm, 1000V

Insulated Phillips Screwdriver #2, 4 in,

100 mm, 1000V
ISQS1 Insulated Squared

Screwdriver #1, 4 in, 100 mm, 1000V

ISQS2 Insulated Squared Screwdriver #2, 5 in,

125 mm, 1000V
INLP8 Insulated Long Nose

/w Side Cutter, 8 in, 200mm, 1000V

> Insulated High Leverage Diagonal

Cutter, 8 in, 200mm,

Insulated Pump Plier Fast adjustable, 10 in,

250 mm, 1000V

Insulated Linesman Combination Plier, 8 in, 200 mm, 1000

Contact your local distributor for price and availability.



Fluke Insulated Hand Tools Kits



	~			***
Hand Tool Kits	IKSC7	IKPL3	IKST7	IKPK7
Description	Insulated 7 Unit Screwdriver Kit, 1000 V	Insulated 3 Unit Pliers Kit, 1000 V	Insulated Hand Tools Starter Kit, 1000 V	Fluke Pack30 Professional Tool Backpack + Insulated Hand Tools Starter Kit
Included	3 slotted tips, 2 Phillips tips, 2 square drive tips	Long Noise Pliers, Heavy Duty Diagonal Cutter, Heavy Duty Combo Pliers, Roll-up Tool Pouch	3 Slotted Tips, 2 Phillips Tips, Long Nose Pliers, Diagonal Cutter, Linesman Combination Plier, Roll-up Tool Pouch	Fluke Pack30 Professional Tool Backpack, 3 Slotted Tips, 2 Phillips Tips, Long Nose Pliers, Diagonal Cutter, Combination Pliers, Roll-up Tool Pouch
Warranty	Lifetime	Lifetime	Lifetime	1-year*

^{*}Hand tools in kits all carry the limited lifetime warranty.



	-	6	-	-	- 1
Tools + Hand Tool Kits	IBT6K	IB875K	IB117K	IB179K	IB376K
Description	Fluke T6 Electrical Tester + Insulated Hand Tools Starter Kit	Fluke 87V Industrial Multimeter + Insulated Hand Tools Starter Kit	Fluke 117 Electrician's Multimeter + Insulated Hand Tools Starter Kit	Fluke 179 True-RMS Digital Multimeter + Insulated Hand Tools Starter Kit	Fluke 376FC True-RMS Clamp Meter + Insulated Hand Tools Starter Kit
Included	Fluke T6 Electrical Tester, 3 Slotted Tips, 2 Phillips Tips, Long Nose Pliers, Diagonal Cutter, Combination Pliers, Roll-up Tool Pouch	Fluke 87V Industrial Multimeter, 3 Slotted Tips, 2 Phillips Tips, Long Nose Pliers, Diagonal Cutter, Combination Pliers, Roll-up Tool Pouch	Fluke 117 Electrician's Multimeter, 3 Slotted Tips, 2 Phillips Tips, Long Nose Pliers, Diagonal Cutter, Combination Pliers, Roll-up Tool Pouch	Fluke 179 True-RMS Digital Multimeter, 3 Slotted Tips, 2 Phillips Tips, Long Nose Pliers, Diagonal Cutter, Combination Pliers, Roll-up Tool Pouch	Fluke 376FC True-RMS Clamp Meter, 3 Slotted Tips, 2 Phillips Tips, Long Nose Pliers Diagonal Cutter, Combination Pliers, Roll-up Tool Pouch
Warranty	2-year*	Lifetime	3-year*	Lifetime	Lifetime

^{*}Hand tools in kits all carry the limited lifetime warranty.



*Insulated Hand Tool Lifetime Limited Warranty
Each Fluke Insulated Hand Tool will be free from defects in material and workmanship for its lifetime. As used herein, "lifetime" is defined as seven years after Fluke discontinues manufacturing the product, but the warranty period shall be at least fifteen years from the date of purchase. This warranty does not cover damage from neglet, misuse, contamination, alteration, accident or abnormal conditions of operation or handling, damage or normal wear and tear of mechanical components. This warranty covers the original purchaser only and is not transferable.

To establish original ownership and prove date of purchase, please complete and return the registration card accompanying the product, or register your product on fluke.com/registration. Fluke will, at its option, repair at no charge, replace or refund the purchase price of a defective product purchased through a Fluke authorized sales outlet and at the applicable international price. Fluke reserves the right to charge for importation costs of repair/replacement parts if the product purchased in one country is sent for repair elsewhere.

If the product is defective, contact the authorized seller you purchased the tool from for immediate replacement or your nearest Fluke authorized service center to obtain return authorization information, then send the product to that service center, with a description of the difficulty, postage and insurance prepaid (FOB Destination). Fluke assumes no risk for damage in transit. Fluke will pay return transportation for product repaired or replaced in-warranty. Before making any non-warranty repair, Fluke will estimate cost and obtain authorization, then invoice you for repair and return transportation.

THIS WARRANTY IS YOUR ONLY REMEDY. NO OTHER WARRANTIES, SUCH AS FITNESS FOR A PARTICULAR PURPOSE, ARE EXPRESSED OR IMPLIED. FLUKE SHALL NOT BE LIABLE FOR ANY SPECIAL, INDIRECT, INCIDENTAL OR CONSEQUENTIAL DAMAGES OR LOSSES, INCLUDING LOSS OF DATA, ARISING FROM ANY CAUSE OR THEORY. AUTHORIZED RESELLERS ARE NOT AUTHORIZED TO EXTEND ANY DIFFERENT WARRANTY ON FLUKE'S BEHALF.







Ordering Information

Insulated 7 Unit IKSC7 Screwdriver Kit, 1000 V Insulated 3 Unit Pliers Kit, IKPL3 1000 V

Insulated Hand Tools IKST7 Starter Kit, 1000 V

Pack30 Professional IKPK7 Tool Backpack +

Insulated Hand Tools

Fluke T6 Electrical Tester + Insulated Hand Tools Starter Kit

IB875K Fluke 87V Industrial Multimeter + Insulated Hand Tools Starter Kit

Fluke 117 Electrician's Multimeter + Insulated Hand Tools Starter Kit

Fluke 179 True-RMS Digital Multimeter + Insulated Hand Tools Starter Kit

IB376K Fluke 376FC True-RMS Clamp Meter + Insulated Hand Tools Starter Kit

Roll-up Tool Pouch Professional Tool Backpack

> Fluke TB25 Tool Bucket Organizer Bag, 5.2 gal

Contact your local distributor for price and availability. fluke.com/findus





Battery and Charger Compatibility

Prevent the unexpected loss of power with our rugged and rechargeable battery packs and keep your Fluke infrared camera charged while you're on the road with our car chargers.

Model Number	TiS20+/TiS20+MAX, 55+, 60+, 75+	TiS55+, TiS60+, TiS75+	Ti401 Pro, Ti480 Pro	TiX580
TI-SBC3B Battery Charging Base	•	•	•	•
TI-SBP3 Rechargeable Lithium-ion Smart Battery Pack	•	•	•	
TI-SBP4 Rechargeable Lithium-ion Smart Battery Pack				•
TI-CAR CHARGER	•	•	•	•
FLK-XBattery				

Sun Visor Compatibility

Instantly reduce LCD screen glare and reflections in bright sunlight or other areas where ambient lighting conditions are bright with our durable, heavy-duty plastic visor. It can be used inside or outside, and easily clips onto to your Fluke infrared camera without the need for any additional hardware.

Model Number	Ti401 Pro, Ti480 Pro
TI-VISOR3	•

Tripod Base Compatibility

Lightweight, one-piece mounting accessory quickly and easily attaches to your Fluke Infrared Camera and allows you to mount to a standard tripod or monopod for those applications or situations that require a more stable or semi-fixed platform.

Model Number	TiS20+/ TiS20+MAX / TiS55+ / TiS60+ / TiS75+ / Ti401Pro / Ti480Pro
TI-TRIPOD3	•



Test Leads, Probes and Clips Compatibility

Model Number	TL175	TL26A	TL40	TL71	TL75	TL76	TL221	TL222	TL224	TL910
Test Leads										
110/114/115/ 116/117	•	•	•	•	•	•	•	•	•	•
175/177/179	•	•	•	•	•	•	•	•	•	•
87V	•	•	•	•	•	•	•	•	•	•
287/289	•	•	•	•	•	•	•	•	•	•
8845A/8846A	•	•	•	•	•	•	•	•	•	•
120 Series	•	•	•	•	•	•	•	•	•	•
190 Series	•	•	•	•	•	•	•	•	•	•
323/325	•	•	•	•	•	•	•	•	•	•
370 Series, 381	•	•	•	•	•	•	•	•	•	•
705/707	•	•	•	•	•	•	•	•	•	•
712	•	•	•	•	•	•	•	•	•	•
715	•	•	•	•	•	•	•	•	•	•
716/717	•	•	•	•	•	•	•	•	•	•
718	•	•	•	•	•	•	•	•	•	•
725/726	•	•	•	•	•	•	•	•	•	•
787B/789	•	•	•	•	•	•	•	•	•	•
1577/1587 FC	•	•	•	•	•	•	•	•	•	•
Clips and Probes										
AC175				•	•	•				
AC87							•	•	•	
AC89							•	•	•	
AC220							•	•	•	
AC280							•	•	•	
AC238A							•	•	•	
AC285							•	•	•	
AC288							•	•	•	
FTP-1							•	•	•	
TLK290							•	•	•	
TLK291							•	•	•	
TP1							•	•	•	
TP2							•	•	•	
TP4							•	•	•	
TP38							•		•	
TP74							•	•	•	
TP80							•	•	•	
TP175							•	•	•	
TP220							•	•	•	
TP912										•
TP920				•	•					
T5 Starter Kit					1	oatible with T5	 T+/T+Pro/330	। Series Clamp M	leters)	
TP165X						tible with 1503,				



Test Leads, Probes and Clips

Test Lead/Probe-in-One



TL175 TwistGuard™ Test Leads

- Probes meet IEC 61010-031 requirements for safety
- · Patented extendable tip guard meets CAT III 1000 V, CAT IV 600 V requirements while providing the flexibility you need for CAT II measurements
- Probes always show correct category rating for tip length being used



TL75 Hard Point™ Test Lead Set

One pair (red, black) comfort grip probes with PVC-insulated, right-angle shrouded 4 mm banana plugs.

 Safety rating: CAT II 1000 V, 10 A (CAT III 1000 V, CAT IV 600 V with



TL71 Premium Test Lead Set

One pair (red, black) comfort grip probes with flexible silicone insulated, right-angle test leads.

- Heat and cold resistant
- Safety rating: CAT II 1000 V, 10 A (CAT III 1000 V, CAT IV 600 V with protective cap)



TL76 2mm/4mm Test Lead Set

One pair (red, black) silicone test leads with right angle shrouded 4 mm banana

- Removable lantern tip for easy access to terminal blocks, 2 mm diameter
- Safety rating: CAT II 1000 V, 10 A (CAT III 1000 V, CAT IV 600 V with protective cap)



TL40 Retractable Tip Test Lead Set

One pair (red, black) flexible silicone insulated test leads with sharp needle point tips adjustable to desired length from 0 to 76 mm.

- Extra hard probe tips to provide long service life
- Safety rating: CAT II 600 V, 3 A rating



TL26A 60 in 5-Way Test Lead Set

One pair (red, black) silicone-insulated leads with five different ways to connect.

- U-shaped nose for blade-shaped
- Notched jaw for gripping screw heads, bare wire or terminals
- Serrated teeth for gripping threaded or wire-wrapped terminals
- Sharp needle cluster for piercing small gauge (#22-#28 AWG) wires
- Large piercing needle
- Safety rating: 30 V, 10 A



TL910 Electronic Test Probes

One pair (red, black) leads with very small tips to access hard-to-reach electronic

- Includes three sets of spring-loaded gold tips and two sets of stainless steel
- Tip length up to 100 mm
- Tip diameter: 1 mm
- Safety rating: CAT II 1000 V, 3 A



TP912 Replacement Tips for TL910

Five sets of spring-loaded, tips to refurbish TL910 Electronic Test Probes.

- · Very small 1mm tips to access hard-toreach electronic test pointsProbe tip length up to 100 mm
- Three sets of gold-plated and two sets of stainless steel tips



TP165X Remote Control Probe

Probe with integrated test button simplifies measurement when accessing hard-to-reach points.

- Probe designed for 1500 Series Insulation and 1650/1660 Series **Installation Testers**
- Tip length up to 18.66 mm • Tip diameter: 1 mm
- Safety rating: CAT II 1000 V, (CAT III 1000 V, CAT IV 600 V with protective cap), 10 A



TL1500DC 1500 V DC Test Lead Set

Test leads specially developed for solar, wind and battery applications. Rugged design for rough outdoor environments.

- Safe and accurate voltage measurements up to 1500 V DC
- Safety rating: CAT III 1500 V,

Probe-in-one clips



AC288 SureGrip™ **Terminal Block Probe**

One pair (red, black) of probes features a retractable probe tip for connections to clamp and screw type terminal blocks.

- · Designed for increased safety, while providing the flexibility to reach deep connection points
- 1mm diameter probe tip extends out to 8.4 mm length
- Recommended for use with the TL224, TL222, TL221 test leads
- Safety rating: CAT III 1000 V, CAT IV 600



AC175 Alligator Clip Set

One pair (red, black) slide-on alligator clips.

- 8mm clip opening
- Slide-on alligator clips are compatible with TL71, TL75, TL175 and TP175 test
- Safety rating: CAT IV 600 V, CAT III 1000



TP920 Test Probe Adapter Set

Three pairs (red, black) push-on adapters.

- Includes IC test adapters, extended probe tips, and medium alligator clips
- Maximum opening 7.6 mm
- Safety rating: IC test adapter CAT II 300 V. extended probe tips CAT II 300 V, medium alligator clips CAT II 1000 V

Test Leads, Probes and Clips

Modular Test Leads



TL221 SureGrip™ Test Lead **Extensions Set**

One pair (red, black) silicone-insulated leads with safety-shrouded, 4 mm banana

- Couplers have female connectors on both ends
- Safety rating: CAT IV 600 V, CAT III 1000 V, 10 A



TL222 SureGrip™ Silicone Insulated **Test Leads**

One pair (red, black) silicone-insulated test leads (red, black) with safetyshrouded, 4 mm banana plugs.

· Right angle connectors on both ends



TL224 SureGrip™ Insulated Test

One pair (red, black) silicone-insulated test leads with safety-shrouded 4 mm banana plugs.

- Right angle connector on one end and straight connector on the other
- Safety rating: CAT IV 600 V, CAT III 1000



TL27 Heavy-duty Test Lead Set

One pair (red, black) rugged, EPDMinsulated test leads with safety-shrouded 4 mm banana plugs.

- Straight connectors on both ends
- Safety rating: CAT III 1000 V, 10 A

Test Lead Holder



H900 Test Lead Holder

Heavy-duty holder for conveniently storing test lead wires.

- Mounting holes for securing to wall or other surfaces
- For test lead wires up to 8mm in
- Overall dimensions (LxWxH): 279 mm × 89 mm × 32 mm

Modular Clips



AC285/-FTP SureGrip™ Alligator Clips One pair (red, black) large alligator clips

with insulated, nickel-plated steel jaws. • Multi-purpose tooth pattern grips from

- fine gauge wire to a 20 mm bolt • Safety rating: CAT IV 600 V, CAT III 1000
- V. 10 A AC285-FTP includes AC285 and adapters for FTP-1 or FTPL-1 Fused Test Probes



AC220 SureGrip™ Alligator Clips

One pair (red, black) of small, insulated, nickel-plated jaws

- Blunt tip grabs round screw heads up
- Safety rating: CAT IV 600 V, CAT III 1000



AC280 SureGrip™ Hook Clips

One pair (red, black) nickel-plated hookstyle clips.

- Hook opening 6.4 mm at front
- Base opening of 0.2 mm
- Safety rating: CAT IV 600 V, CAT III 1000



AC283A SureGrip™ Pincer Clips

One pair (red, black) nickel-plated pincers open to 5 mm.

- 11.4 cm flexible insulated shaft
- Safety rating: CAT II 1000 V, 1 A



AC89 Heavy Duty Insulation Piercing Test Clip

Ideal probe for establishing accurate contact through insulation.

- Pierces 0.25 mm to 1.5 mm insulated wire
- Safety rating: 1000 V, 10 A



AC87 Heavy Duty Bus Bar Clip Set

One pair (red, black) flat, right angle clips designed for connecting to bus bars. • Adjustable collar provides two ranges

of jaw openings up to 30 mm • Safety rating: CAT III 600 V, 5 A

Modular Test Probes



TP175 TwistGuard™ Test Probes

- Modular test probes of the popular TL175 Test Leads
- Patented extendable tip guard meets CAT III 1000 V, CAT IV 600 V requirements while providing the flexibility you need for CAT II measurements
- 2 mm diameter stainless steel probe tips



TP220 SureGrip™ Industrial **Test Probes**

One pair (red, black) industrial test probes with stainless steel tip.

- Sharp, 12 mm tips
- Safety rating: CAT II 1000 V (CAT III 1000 V, CAT IV 600 V with protective



TP1 Slim Reach™ Test Probes

One pair (red, black) slender probes with flat stainless steel blade to hold securely in blade-type electrical wall sockets.

- Tip length up to 14.7 mm
- Safety rating: CAT II 1000 V, 10 A (CAT III 1000 V, CAT IV 600 V with



TP2 Slim Reach™ Test Probes

One pair (red, black) slender stainless steel probes for accessing closelyspaced or recessed terminals such as in electronic environments.

- 2 mm diameter tip
- Safety rating: CAT II 1000 V, 10 A (CAT III 1000 V, CAT IV 600 V with protective cap)



TP4 Slim Reach™ Test Probes

One pair (red. black) slender stainless steel probes for accessing closely-spaced or recessed electrical terminals.

• 4 mm diameter probe tip designed to fit securely into IEC (C13 and C14) electrical wall outlets

Safety rating: CAT II 1000 V, 10 A



Accessories

Test Leads, Probes and Clips



TP80 Electronic Test Probes

One pair (red, black) electronics test

- IC-insulated cap prevents shortening of IC legs for probing high density components or boards
- Tip length up to 3.9 mm
- Tip diameter: 1 mm
- Safety rating: CAT III 1000 V, 1 A



TP74 Lantern Tip Test Probes

One pair (red, black) featuring nickelplated brass ends.

- Banana-style 4 mm spring contacts
- Safety rating: CAT II 1000 V, 10 A (CAT III 1000 V, CAT IV 600 V with protective



TP38 Slim Reach™ Test Probes

One pair (red, black) slender stainless steel probes for accessing closely-spaced or recessed terminals.

- Tip length: 24 mm which includes the insulated part of the tip
- Probe tip insulated to 4 mm from the
- Safety rating: CAT IV 600 V, CAT III 1000

Patch Cords



TL932 Patch Cords (90 cm)

One pair (red, black) multi-stacking banana plug patch cords, 90 cm long.

- Nickel-plated, 4 mm banana plugs
- 90 cm long PVC insulated leads
- 30 V rms or 60 V dc, 15 A



TL930 Patch Cords (60 cm)

One pair (red, black) multi-stacking banana plug patch cords, 61 cm long.

- Nickel-plated, 4 mm banana plugs
- 61 cm long PVC insulated leads
- 30 V rms or 60 V dc, 15 A



TL935 Patch Cords (60 cm, 90 cm, 120 cm)

Three sets (red and black pairs) of multistacking banana plug patch cords in different lengths.

- Nickel-plated, 4 mm banana plugs
- 60 cm, 90 cm, and 120 cm long PVC
- 30 V rms or 60 V dc, 15 A



TL940 Mini-Hook Test Leads

One pair (red, black) of test leads with multi-stacking 4 mm banana plugs and

- Mini-hooks attach to component leads up to 1.5 mm diameter
- 90 cm long PVC insulated leads
- 30 V rms or 60 V DC, 3 A



TL950 Mini-Pincer Test Leads

One pair (red, black) of test leads with multi-stacking 4 mm banana plugs and

- Mini-pincers open to 2.3 mm
- 90 cm long PVC insulated leads
- 30 V RMS or 60 V DC, 3 A



TL960 Micro-Hook Test Leads

One pair (red, black) of test leads with multi-stacking 4 mm banana plugs and micro-hooks.

- Micro-hooks attach to component leads up to 1 mm diameter
- 90 cm long PVC insulated leads
- 30 V RMS or 60 V DC, 3 A



TL970 Hook and Pincer Set

- TL940 Mini-Hook Test Lead Set
- TL950 Mini-Pincer Test Lead Set
- TL960 Micro-Hook Test Lead Set



- **Probes** • Built-in fuses for added protection
- 2 mm threaded probe tips include removable 4 mm lantern-style spring contacts
- FTPL-1 comes with a set of TL224 SureGrip™ Insulated Test Leads
- Safety rating: CAT II 1000 V (CAT III 1000 V, CAT IV 600 V with protective



TL238 SureGrip™ Test Lead Set for **High Energy Environments**

This kit is specially designed for high energy environments. Three-piece kit:

- TP238 SureGrip™ Insulated Test Probe Set
- TP280 SureGrip™ Test Probe Extender
- TL224 SureGrip™ Insulated Test Leads
- Safety rating:
 TP238 and TL224: CAT IV 600 V, CAT III 1000 V, 10 A
- TP280: CAT III 1000 V. 10 A



TLK290 Flexible Socket Probe Set

Set includes three flexible socket probes and a large alligator clip for use with 4mm shrouded test leads.

- Test probes are for use on motor and three-phase sockets
- Probes have flexible test points that fit securely between 4 mm and 8 mm
- Safety rating: CAT II 1000 V, 8 A



TLK291 Fused Test Probe Set

One pair (red, black) fused test probes. Probes fit on modular leads or on fixedlead test tools.

- Each probe contains a 500 mA/1000 V/IR:50 kA fuse
- Safety rating: CAT IV 600 V, CAT III 1000



Model number	TL27	TL80A	TL81A	TL220	TL223	TL225	TL238	TLK-220	TLK-225	TLK287	TLK289
Test Lead Sets and Ki	ts										
110/114/115/ 116/117	•	•	•	•	•	•	•	•	•	•	•
27 II	•	•	•	•	•	•	•	•	•	•	•
175/177				•		•	•	•	•	•	
179	•	•	•	•	•	•	•	•	•	•	•
87V				•		•	•	•	•	•	•
287/289				•	•	•	•	•	•	•	•
8845A/8846A	•			•	•	•	•	•	•	•	•
120/B Series	•	•	•	•	•	•	•	•	•	•	•
190/-II Series	•			•	•	•	•	•	•	•	•
323/325	•	•	•	•	•	•	•	•	•	•	•
370 Series, 381	•				•	•	•	•	•	•	•
705/707			•	•	•	•	•	•	•	•	•
712				•	•	•	•	•	•		•
715	•	•	•	•	•	•	•	•	•	•	•
717				•		•	•	•	•	•	•
718	•	•	•	•	•	•	•	•	•	•	•
725/726				•		•	•	•	•		•
787B/789	•	•	•	•	•	•	•	•	•	•	•
1577/1587 FC	•			•	•	•	•	•	•	•	•
Clips and Probes											
AC175		•	•								
AC87	•		•	•	•	•	•	•	•	•	•
AC89	•		•	•	•	•	•	•	•	•	•
AC220	•		•	•	•	•	•	•	•	•	•
AC280	•		•	•	•	•	•	•	•	•	•
AC238A	•		•	•	•	•	•	•	•	•	•
AC285	•		•	•	•	•	•	•	•	•	•
FTP-1	•		•	•	•	•	•	•	•	•	•
TLK290			•	•	•	•	•	•	•	•	•
TLK291			•	•	•	•	•	•	•	•	•
TP1	•		•	•		•	•	•	•	•	•
TP2	•		•	•	•	•	•	•	•	•	•
TP4	•		•	•	•	•	•	•	•	•	•
TP38	•		•	•	•	•	•	•	•	•	•
TP74	•		•	•	•	•	•	•	•	•	•
TP80	•		•	•	•	•	•	•	•	•	•
TP175	•		•	•	•	•	•	•	•	•	•
	•		•	•	•	•	•	•	•	•	•
TP220											
										•	
TP912										•	
TP220 TP912 TP920 T5 Starter Kit		•	•	(compat	ible with T5/1	Γ+/T+Pro/330	Series Clamp	Meters)		•	



Test Lead Sets and Kits



TLK289 Industrial Master Test Lead

Designed for electrical and electronics testing including clips and probes for dependable contact with a variety of test points. Includes:

- One pair each (red, black): AC285 Large Jaw Alligator Clips AC220 Plunger Style Alligator Clips AC280 SureGrip™ Hook Clips TP220 SureGrip™ Industrial Test Probes
- TPAK ToolPak™
- 80BK-A Integrated DMM Temperature
- C116 Soft Carrying Case



TLK287 Electronics Master Test Lead

The perfect test lead set for electronics test and design. Includes 11 items:

- Precision electronic probes with multiple spring-loaded sharp tips to maximize contact with SMD test points
- Micro-grabbers and leads to enable fine SMD testing
- Mini-alligator clips, grabbers, and probes
- Modular test leads and lead-probe combinations
- Couplers for long lead applications



TL81A Deluxe Electronic Test Lead Kit

This 11-item kit includes pouch and two each (red, black) of:

- Test leads with a safety-shrouded, right angle banana connector on one end and a stainless steel test probe on the other. Rated up to 10 A.
- Insulated alligator clips. Rated up to 10
- Insulated probe tip extenders. Rated up to 3 A • Modular test probes with banana jack
- connector. Rated up to 10 A • Modular hook-style clip test leads.
- Rated up to 5 A • Modular pinch-style clip test leads.
- Rated up to 5 A • Modular alligator clips. Rated up to 10
- Slide-on IC probe tip adapters (rated up to 3 A) and test lead couplers
- Bare spade lug. Rated up to 10 A



TL220 SureGrip™ Industrial Test Lead Set

Handy all-in-one set that includes essential test items for industrial environments. Three-item set includes:

- AC220 Plunger Style Alligator Clips
- TP220 SureGrip™ Industrial Test Probes CAT II 1000 V, 10 A without protective
- TL224 SureGrip™ Silicone Insulated Test Leads
- Safety rating: All CAT IV 600 V, CAT III



TL80A Basic Electronic Test Lead Kit

The fundamental accessories for testing are included in this four-item kit:

- Medium alligator clip CAT II 1000 V, 10
- Extended probe tips CAT II 300 V, 3 A
- TL71 Premium Test Lead Set
- C75 Accessory Case



TLK-225 SureGrip™ Master Accessory

Set includes all the SureGrip™ leads, clips, and probes in a handy roll-up pouch. This 13-item set includes:

- AC220 Plunger Style Alligator Clips
- AC280 SureGrip™ Hook Clips
- AC238A SureGrip™ Pincer Clips
- AC285 Large Jaw Alligator Clips
- TP175 TwistGuard™ Test Probes
- TL224 SureGrip™ Insulated Test Leads
- Six-pocket Storage Pouch
- Safety rating: all CAT IV 600 V, CAT III 1000 V



TL223 SureGrip™ Electrical Test Lead

All-in-one set includes three test lead accessories:

- AC220 Plunger Style Alligator Clips
- TP1 Slim Reach Test Probes
- TL224 SureGrip™ Insulated Test Leads • Safety rating: CAT II 1000 V, 10 A (CAT III 1000 V, CAT IV 600 V with protective cap)



TLK-220 SureGrip™ Industrial Test Lead Kit

Special-value SureGrip™ five-piece kit for industrial applications, in a roomy carrying case. Kit includes:

- AC220 Plunger Style Alligator Clips
- AC285 Large Jaw Alligator Clips
- TP220 SureGrip™ Industrial Test Probes
- TL224 SureGrip™ Insulated Test Leads
- C116 Zippered Vinyl Case with Moveable Divider
- Safety rating: CAT II 1000 V (CAT III 1000 V, CAT IV 600 V with protective cap), 10 A



T5 Starter Kit

Special-value three-piece kit for the electrical professional with a Fluke T5 Voltage, Continuity and Current Tester.

- TP238 Insulated Test Probes
- AC285 Large Jaw Alligator Clips
- C33 Soft Carrying Case
- Safety rating: all CAT IV 600 V, CAT III



TLS430 Test Leads and **Alligator Clips**

Test lead replacement set for the Fluke 430 Series II Three-Phase Power Quality Analyzers.

- Set includes five of each (4 black. 1 green) test leads and alligator clips
- Safety rating: CAT IV 600 V, CAT III 1000



TL225 SureGrip™ Stray Voltage Adapter Test Lead Kit

The Fluke TL225 adds low input impedance to a multimeter, desensitizing it to low energy and eliminating ghost or stray voltages. Four-piece kit includes:

- SV225 Stray Voltage Adapter
- TL224 SureGrip™ Insulated Test Leads
- TP238 Insulated Test Probes
- C75 Accessory Case
- Safety rating: All CAT IV 600 V, CAT III 1000 V, 10 A



	1	Bead	HVAC	Immersion	Surface	Air	Piercing	General Purpose	Industrial Surface	Pipe Clamp
	80BK-A	80PK-1 80PJ-1	80PK-11	80PK-22	80PK-3A	80PK-24	80PK-25 80PT-25	80PK-26	80PK-27	80PK-8
Lowest Temperature		40° C 40° F)	-30° C (-22° F)	-40° C (-40° F)	0° C (32° F)	-40° C (-40° F)	Type K: -40° C (-40° F) Type T: -196° C (-321 "F)	-40° C (-40° F)	-127° C (-196° F)	-29° C (-20° F)
Highest Temperature		60° C 600° F)	105° C (221 "F)	1090° C (1994 "F)	260° C (500°F)	816° C 1500 "F)	350° C (662 "F)	816° C (1500"F)	600° C (1112 "F)	149° C (300 "F)
Probe Material		wire with insulation	Velcro	Inconel 600	Type K sensor with teflon body	Inconel	316 Stainless Steel	304 Stainless Steel	304 Stainless Steel	Type K sensor with PVC body
Probe Length	1 m (3.3	ft) lead wire	48.26 cm (19 in) Velcro cuff	21.27 cm (8.375 in)	9.52 cm (3.75 in)	21.59 cm (8.5 in)	10.16 cm (4 in)	21.57 cm (8.5 in)	20.32 cm (8 in)	for pipes from 6.4 mm (0.25 in) to 34.9 mm (1.375 in)
Cable Length		1 n	n (3.3 ft)		1.3 m (4 ft)			1 m (3.3 ft)		
Connection	Standard banana jack	Molded thermocouple plug	Molded thermocouple plug	Molded thermocouple plug	Molded thermocouple plug	Molded thermocouple plug	Molded thermocouple plug	Molded thermocouple plug	Molded thermocouple plug	Molded thermocouple plug
SureGrip Handle	No	No	No	Yes	No	Yes	Yes	Yes	Yes	No
Key Feature	troublesh secured	l for initial ooting. Can be in place with a nagnet.	Velcro probe allows hands-free temperature measurement.	For use in liquids or in gels.	Exposed junction for direct contact with flat or slightly convex surfaces.	Perforated baffle for air and non- caustic gas measurements.	Probe material safe for use in foods. Sharp tip pierces solid surfaces.	Use for general purpose air or surface measurements.	Low conductivity stainless steel minimizes thermal shunting. Extra rugged.	Clamps securely to pipe. Measurements are repeatable to 0.56° C (1° F)
Thermocouple Types	К	К, J	К	К	К	К	К, Т	К	К	К

Temperature Com	emperature Compatibility												
Model Number	80AK-A	80BK-A	All 80PK Probes	80PJ-1/ 80PJ-9	80PT-25	80TK	80T- 150UA	80PJ- EXT	80PK- EXT	80PT- EXT	80CK-M	80CJ-M	80PR-60
110/114/115/ 116/117	116	116							A		A		
27 II						•	•		•		•		
175/177			-			•	•		•		-		
179	•	•	A						A		A		
87V	•	•	A						A		A		
287/289	•	•	A				•		A		A		
8845/8846			-			•	•		•		-		
43B			•			•	•		•		•		
120/B Series			-			•	•		•		-		
190/-II Series			•			•	•		•		•		
51/52/53/54 II			•	•	•			•	•	•	•	•	
63													66/68
714			•	•	•			•	•	•	•	•	
715			-			•	•		-		-		
725/726			•	•	•			•	•	•	•	•	
787B/789			-			•	•		•		•		
902	•	•	•						•				
1587 FC	•	•	A						A		A		
1577	•		A										
561			•										

Compatible; ■Requires 80TK; ▲ Requires 80AK-A; 116 only: requires 80AK-A



Temperature Accessories



80PI-1 or 80PK-1 Bead Probe

Type J or K thermocouple probe for general purpose applications. Ideal for troubleshooting.

- 1 mm probe with Teflon™ insulation
- Measurement range: -40° C to 260° C (-40° F to 500° F)



Type J or K thermocouple probe for air and non-caustic gases. The sharp tip pierces pipe insulation and the flat surface makes good contact.

- 15.25 cm stainless steel probe
- Measurement range: -40° C to 260° C (-40° F to 500° F)



- 203 mm stainless steel probe

gas, and liquid measurements.

• Measurement range: -40° C to 816° C (-40° F to 1500° F)



80PK-3A Surface Probe

Type K thermocouple with exposed junction for flat or slightly convex surfaces such as plates and rollers.

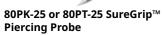
- 9.52 cm probe with Teflon™ insulation • Measurement range: 0° C to 260° C
- (-40° F to 500° F)



80PK-27 SureGrip™ Industrial Surface **Temperature Probe**

Type K thermocouple probe for surfaces in rugged environments.

- 1 m lead
- 20.32 cm stainless steel probe
- Measurement range: -127° C to 600° C (-196° F to 1112° F)



Type K or T thermocouple suitable for food industry, liquids, and gels. Sharp tip pierces solid surfaces.

- 1 m lead
- 10.16 cm stainless steel probe
- · Measurement range: - Type K: -40° C to 350° C (-40° F to
- Type T: -196° C to 350° C (-321° F to 932° F)

80PK-24 SureGrip™ Air Probe

Type K thermocouple probe for air and non-caustic gas measurements.

- 1 m lead
- 21.59 cm (8.5 in) Inconel™ probe
- Bead protected by perforated baffle
- Measurement range: -40° C to 816° C (-40° F to 1500° F)



80PK-22 SureGrip™ Immersion Probe

Type K thermocouple probe for use in liquids and gels.

- 1 m lead
- 21.27 cm (8.375 in) Inconel™ probe
- Measurement range: -40° C to 1090° C (-40° F to 1994° F)



80PK-8 and 80PK-10 Pipe Clamp Probe

Type K thermocouple clamps securely to pipes for fast temperature and superheat measurements.

- Durable ribbon sensor
- 80PK-8 for pipe diameters 6.4 mm to 34.9 mm
- 80PK-10 for pipe diameters 32 mm to
- Measurements are repeatable to
- Measurement range: -29° C to 149° C (-20° F to 300° F)



80PK-11 Type-K Velcro™ Thermocouple Probe

Type K Velcro cuff for use with any temperature-measuring instrument that accepts type K thermocouples.

- Use multiples and leave in place for route-based routine maintenance
- 48 cm Velcro[™] cuff
- Measurement range: -30° C to 105° C (-22° F to 221° F)



80PK-18 Pipe Clamp **Temperature Probe Kit**

- Includes both 80PK-8 and 80PK-10 Type K clamps
- Provides full range of pipe measurement sizes
- Includes soft carrying case



80PR-60 RTD Temperature Probe

This probe expands the utility of an RTD non-contact infrared thermometer by simultaneously taking contact and noncontact temperature readings.

- For use with the Fluke 66 and 68 **Infrared Thermometers**
- 90 mm platinum 1 kΩ probe
- 3.5 mm phono type jack
- Measurement range: -40° C to 260° C (-40° F to 500° F)



80AK-A Thermocouple Adapter

Adapts type K thermocouple miniconnector to dual shrouded 4 mm banana plug inputs.

- Measurement range and accuracy: probe dependent
- Suitable for low voltage applications (below 30 V AC, 60 V DC)



80BK-A Integrated DMM **Temperature Probe**

Convenient, integrated type K thermocouple probe with standard shrouded 4 mm banana jack.

- Compatible with Fluke DMM with temperature measurement functions
- Measurement range: -40° C to 260° C (-40° F to 500° F)



80TK Thermocouple Module

This module converts a DMM to a thermometer and is designed for use with type K thermocouples in low voltage

- Voltage range: below 24 V ac, 60 V dc
- Measurement range: -50° C to 1000° C (-58° F to 1,832° F) (probe dependent)



80T-150UA Universal Temperature

Adapts any DMM using shrouded 4 mm banana plugs. This fast, accurate integrated probe is designed for lowvoltage applications.

- For air, surface, and non-corrosive applications
- Voltage range: below 24 V AC, 60 V DC
- 15.7 cm probe tip
- Measurement range: -50° C to 150° C (-58° F to 302° F)
- Output: switchable, from 1 mV/° C to



AC Current Clamp Specifications

	i200	i200s	i400	i400s	i800	i1000s	i3000s	i2000 Flex	i3000s Flex	i6000s
AC current range	1 A to 200 A	1 A to 200 A	1 A to 400 A	0.5 A to 400 A	1 A to 800 A	0.2 A to 1000 A	1 A to 3000 A	2 A to 2000 A	3 A to 3000 A	60 A to 6000 A
Accuracy	3% + 0.5 A 48 Hz to 65 Hz	1% + 0.5 A 48 Hz to 65 Hz	2% + 0.06 A 45 Hz to 400 Hz	0.5 A to 40 A, 2% + 0.01 A, 5 A to 400 A, 2% + 0.04 A, 45 Hz to 400 Hz	0.1 A to 10 A ±3% + 0.01 A, 10 A to 200 A ±2%, 200 A to 800 A ±1%	0.2 to 10 A: 3% + 0.1 A 10 A to 100 A: 2% + 0.5 A 100 A to 1000 A: 1% + 1 A 48 Hz to 65 Hz	1 to 30 A: 2% + 0.1 A 1 to 300 A: 2% + 0.5 A 1 to 3000 A: 2% + 2 A 48 Hz to 65 Hz	±1% of range 45 Hz to 65 Hz Ranges: 20 A, 200 A, 2000 A	±1% of range, 45 Hz to 65 Hz Ranges: 30 A, 300 A, 3000 A	±1% of range 45 Hz to 65 Hz
Bandwidth (-3 dB)	40 Hz to 40 kHz	40 Hz to 40 kHz	5 kHz to 20 kHz	5 Hz to 10 kHz	30 Hz to 10 kHz (typical)	5 Hz to 100 kHz	10 Hz to 100 kHz	10 Hz to 20 kHz	10 Hz to 50 kHz	10 Hz to 50 kHz
Maximum conductor diameter	20 mm	20 mm	32 mm	32 mm	54 mm	54 mm	64 × 100 mm	177 mm	177 mm or 265 mm	193 mm or 289 mm
Maximum conductor size	150 mm2	150 mm2	400 mm2	400 mm2	2× 240 mm ² or 1× 500 mm ²	2× 240 mm ² or 1× 500 mm ²	64 mm	610 mm circumference	610 mm or 915 mm circumference	610 mm or 915 mm
Output levels	1 mA/A	10 mV/A 100 mV/A	1 mA/A	10 mV/A 1 mV/A	1 mA/A	1 mV/A 10 mV/A 100 mV/A	10 mV/A 1 mV/A 0.1 mV/A	100 mV/A 10 mV/A 1 mV/A	100 mV/A 10 mV/A 1 mV/A	50 mV/A 5 mV/A 0.5 mV/A
Output cable	1.5 m shrouded banana plugs	2 m to BNC termination	1.5 m shrouded banana plugs	2.5 m to BNC termination	1.6 m shrouded banana plugs	1.6 m to BNC termination	2.1 m to BNC termination	2 m with double shrouded banana plugs	2.1 m to BNC termination	2 m to BNC, 4 mm plug adapter supplied
Warranty	One-year	One-year	One-year	One-year	One-year	One-year	One-year	One-year	One-year	One-year
Safety rating	CAT III 600 V	CAT III 600 V	CAT III 1000 V CAT IV 600 V	CAT III 1000 V CAT IV 600 V	CAT III 600 V	CAT III 600 V	CAT III 600 V	CAT III 600 V	CAT III 600 V	CAT III 600 V

AC Current Clamp Selection Guide

	i200	i200s	i400	i400s	i800	i1000s	i3000s	i2000 Flex1	i3000s Flex
110/114/116		1 A to 200 A		0.6 A to 400 A*		0.6 A to 1000 A*	1 A to 3000 A	2 A to 2000 A	3 A to 3000 A
115/117	60 A to 200 A	1 A to 200 A	60 A to 400 A	0.6 A to 400 A*	60 A to 800 A	0.6 A to 1000 A*	1 A to 3000 A	2 A to 2000 A	3 A to 3000 A
27 II	2 A to 200 A	1 A to 200 A	2 A to 400 A	1 A to 400 A*	2 A to 800 A	0.1 A to 1000 A*	1 A to 3000 A	2 A to 2000 A	3 A to 3000 A
28 II	1.8 A to 200 A	1 A to 200 A	1.8 A to 400 A	1.8 A to 400 A	1.8 A to 800 A	0.2 A to 1000 A*	2 A to 3000 A	2 A to 2000 A	3 A to 3000 A
77 IV		1 A to 200 A		1 A to 400 A*		0.1 A to 1000 A*	1 A to 3000 A	2 A to 2000 A	3 A to 3000 A
175/177/179	3 A to 200 A	1 A to 200 A	3 A to 400 A	1 A to 400 A*	3 A to 800 A	0.3 A to 1000 A*	3 A to 3000 A	2 A to 2000 A	3 A to 3000 A
1577/1587 FC	3 A to 200 A	1 A to 200 A	3 A to 400 A	3 A to 400 A*	3 A to 400 A	0.3 A to 1000 A*	3 A to 3000 A	2 A to 2000 A	3 A to 3000 A
83V/88V	2 A to 200 A	1 A to 200 A	2 A to 400 A	1 A to 400 A*	2 A to 800 A	0.1 A to 1000 A*	1 A to 3000 A	2 A to 2000 A	3 A to 3000 A
87V	2 A to 200 A	1 A to 200 A	2 A to 400 A	2 A to 400 A*	2 A to 800 A	0.2 A to 1000 A*	2 A to 3000 A	2 A to 2000 A	3 A to 3000 A
287/289	1 A to 200 A	1 A to 200 A	1 A to 400 A	0.5 A to 400 A*	1 A to 800 A	0.2 A to 1000 A*	1 A to 3000 A	2 A to 2000 A	3 A to 3000 A
43B		1 A to 200 A		0.35 A to 400 A		0.1 A to 1000 A	1 A to 3000 A	2 A to 2000 A	3 A to 3000 A
434/435-II		1 A to 200 A		1.2 A to 400 A		0.3 A to 1000 A	1.2 A to 3000 A	i430Flex-TF-II	i430Flex-TF-II
120/B		1 A to 200 A		2.5 A to 400 A		0.25 A to 1000 A	2.5 A to 3000 A	2 A to 2000 A	3 A to 3000 A
190/-II		1 A to 200 A		1 A to 400 A		0.1 A to 1000 A	1 A to 3000 A	2 A to 2000 A	3 A to 3000 A
8808A	1 A to 200 A	1 A to 200 A	1 A to 400 A	0.5 A to 400 A*	1 A to 800 A	0.1 A to 1000 A*	1 A to 3000 A	2 A to 2000 A*	3 A to 3000 A*
8845A/8846A	1 A to 200 A	1 A to 200 A	1 A to 400 A	1 A to 400 A*	1 A to 800 A	0.2 A to 1000 A*	1 A to 3000 A	2 A to 2000 A*	3 A to 3000 A*
787B/789	50 A to 200 A	1 A to 200 A	50 A to 400 A	2 A to 400 A*	50 A to 440 A	0.2 A to 1000 A*	2 A to 3000 A	2 A to 2000 A	3 A to 3000 A

^{*} Requires PM9081 Adapter



AC Current Clamps



i800 AC Current Clamp

This ac current clamp is designed to extend the current measuring capability of a digital multimeter to 800 A AC. It is compatible with a digital multimeter that accepts shrouded 4 mm banana plugs and has an ac milliamp range.

- Current range: 100 mA to 800 A RMS
- Frequency range: 30 Hz to 10 kHz (-3
- Safety rating: CAT III 600 V



i400 AC Current Clamp

This high-safety current clamp for digital multimeters is a single range 400 A AC clamp that is designed to offer maximum utility in a very compact shape. The division ratio is 1000:1.

- Current range: 1 A to 400 A ac
- Frequency range: 5 kHz to 20 kHz (-3
- Safety rating: CAT IV 600 V, CAT III 1000 V



i400s AC Current Clamp

This high-safety compact current clamp with BNC output is a companion to a ScopeMeter® or power quality meter to measure up to 400 A AC.

- Current range: 0.5 A to 400 A AC
- Frequency range: 5 Hz to 10 kHz (-3 dB)
- Optional PM9081/001 Dual Banana Plug Male to Female BNC Adapter is available for digital multimeters
- Safety rating: CAT IV 600 V, CAT III 1000



i200 AC Current Clamp

This small-sized, single-range current clamp features safety-shrouded 4mm banana plugs. It is compatible with most Digital Multimeters and other current measurement devices that accept shrouded 4 mm banana plugs and have an ac milliamp range.

- Current range: 1 A to 200 A AC
- Frequency range: 40 Hz to 40 kHz
- Safety rating: CAT III 600 V



i200s AC Current Clamp

This small-sized dual-range current clamp offers voltage output using a safetyinsulated BNC connector. A dual bananato-BNC adapter allows the clamp to be connected to meters with banana inputs.

- Current ranges: 0.1 A and 200 A AC switchable
- Frequency range: 40 Hz to 10 kHz
- Safety rating: CAT III 600 V



i2000 Flex AC Current Clamp

This current probe can be used to measure currents up to 2000 A when used in conjunction with multimeters, recorders, or data loggers. The flexible and lightweight measuring head allows quick and easy installation on thick and hard-to-reach areas.

- Current range: 20 A, 200 A, and 2000 A ac switchable
- Frequency range: 10 Hz to 20 kHz
- Safety rating: CAT III 600 V



i1000s AC Current Clamp

This large AC current clamp expands applications in industrial and power environments by connecting directly to an oscilloscope using a reinforced coaxial cable and an insulated BNC connector. It is ideal for measuring distorted current waveform RMS and harmonics.

- Current range: 0.1 A to 1000 A AC
- Frequency range: 10 Hz to 100 kHz
- Accurate displays due to a passive filter that eliminates noise and ring on rapidly-rising di/dt waveforms
- Safety rating: CAT III 600 V



i3000s AC Current Clamp

This AC current clamp is designed as a clamp-on unit for use with oscilloscopes. It also includes a dual banana to BNC adapter for use with multimeters with 4mm banana input plugs.

- Current range: 1 A to 3000 A
- Frequency range: 10 Hz to 100 kHz
- Safety rating: CAT III 600 V



i3000s Flex-24 or -36 AC Current Clamp

i3000s Flex-24 is available in a convenient four-pack (i3000s Flex 4 Pack)

The flex clamp uses the Rogowski (aircored coil) principle and can be used to measure three ranges of currents up to 3000 A when used in conjunction with oscilloscopes, recorders or data loggers. The flexible and lightweight measuring head allows quick and easy installation in hard-to-reach areas without batteries or an external power source. This clamp fits around large conductors and is available in 610 mm and 914 mm lengths.

- Current range: 30 A, 300 A, and 3000 A switchable
- Frequency range: 10 Hz to 50 kHz
- Safety rating: CAT III 600 V



i5s AC Current Clamp

Also available in a convenient three-pack (i5sPQ3)

This compact 5 A AC clamp, specially configured to provide low-current accuracy while taking measurements on secondary current transformers, expands the use of Fluke 430 Series Three-Phase Power Quality Analyzers.

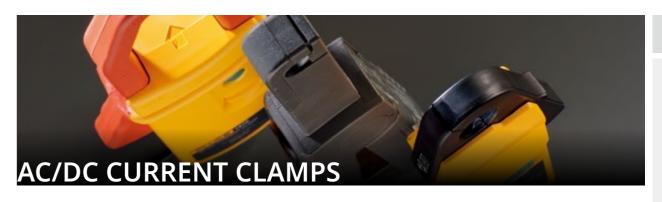
- Current range: 10 mA to 5 A
- Frequency range: 40 Hz to 5 kHz
- Safety rating: CAT III 600 V (for insulated conductors only)



i6000s Flex-24 or -36 **AC Current Clamp**

This ac current clamp with itsflexible and lightweight measuring head allows quick and easy installation in hard-to-reach areas without batteries or an external power source. This clamp fits around large conductors and is available in both 610 mm and 914 mm lengths.

- Current range: 60 A, 600 A, and 6000 A switchable
- Frequency range: 10 Hz to 50 kHz
- Safety rating: CAT III 600 V



AC/DC Current Clamp Specifications

	80i-110s	i410	i1010	i30	i30s	i310s
DC range	0.1 A to 100 A	1 A to 400 A	1 A to 1000 A	30 mA to 30 A	30 mA to 30 A	0.1 A to 450 A
AC range	0.1 A to 70 A	1 A to 400 A	1 A to 600 A	30 mA to 20 A RMS	30 mA to 20 A RSM	0.1 A to 300 A
Accuracy	0.1 A to 10 A; AC to 1 kHz: ±3% + 50 mA; up to 100 A add 15%; up to 20 kHz add 12%	3.5% + 0.5 A for DC or AC (45 to 400 Hz)	2% + 0.5 A for DC or AC (45 to 400 Hz)	±1% of reading, ±2 mA	±1% of reading, ±2 mA	30 A range: 1% + 50 mA 300 A range: 1% + 300 mA
Bandwidth (-3 dB)	100 kHz	3 kHz	10 kHz	dc to 20 kHz (-0.5 dB)	dc to 100 kHz (-0.5 dB)	dc to 20 kHz
Zero error adjustment	•	•	•	•	•	•
Maximum conductor diameter	11.8 mm	30 mm	30 mm	19 mm	19 mm	19 mm
Maximum conductor size	35 mm2	1× 400 mm² or 2× 240 mm²	1× 400 mm² or 2× 240 mm²	120 mm²	120 mm²	120 mm²
Output levels	10 mV/A, 100 mV/A	1 mV/A	1 mV/A	100 mV/A	100 mV/A	1 mV/A, 10 mV/A
Output cable	1.6 meter with BNC termination	1.2 meter with shrouded banana plugs	1.2 meter with shrouded banana plugs	1.5 meter with shrouded dual banana plugs	2 meter with BNC termination	2 meter with BNC termination and a BNC to safety shrouded banana adapter
Battery life	40 hours	60 hours	60 hours	30 hours	30 hours	30 hours
Warranty	One-year	One-year	One-year	One-year	One-year	One-year
Safety	CAT II 600 V; CAT III 300 V	CAT III 600 V	CAT III 600 V	CAT III 300 V	CAT III 300 V	CAT III 300 V

AC/DC Current Clamp Selection Guide

	80i-110s	i410	i1010	i30	i30s	i310s
114/115/	0.1 A to 100 A DC/	1.4 A to 400 A DC/	1.4 A to 1000 A DC/	30 mA to 30 A DC/	30 mA to 30 A DC/	0.1 A to 450 A DC/
116/117	0.1 A to 70 A AC*	6 A to 400 A AC	6 A to 600 A AC	60 mA to 20 A AC	60 mA to 20 A AC	0.6 A to 300 A AC
27 II	0.1 A to 100 A DC/	1 A to 400 A DC/	1 A to 1000 A DC/	30 mA to 30 A DC/	30 mA to 30 A DC/	0.1 A to 450 A DC/
	0.1 A to 70 A AC*	1 A to 400 A AC	1 A to 600 A AC	30 mA to 20 A AC	30 mA to 20 A AC	0.1 A to 300 A AC
28 II	0.1 A to 100 A DC/	1 A to 400 A DC/	1 A to 1000 A DC/	30 mA to 30 A DC/	30 mA to 30 A DC/	0.1 A to 450 A DC/
	0.2 A to 70 A AC*	6 A to 400 A AC	6 A to 600 A AC	60 mA to 20 A AC	60 mA to 20 A AC	2 A to 300 A AC
77 IV	0.1 A to 100 A DC/	1 A to 400 A DC/	1 A to 1000 A DC/	30 mA to 30 A DC/	30 mA to 30 A DC/	0.1 A to 450 A DC/
	0.1 A to 70 A AC*	5 A to 400 A AC	5 A to 600 A AC	40 mA to 20 A AC	40 mA to 20 A AC	0.4 A to 300 A AC
175/177/179	0.11 A to 100 A DC/	1.6 A to 400 A DC/	1.6 A to 1000 A DC/	30 mA to 30 A DC/	30 mA to 30 A DC/	0.1 A to 450 A DC/
	0.3 A to 70 A AC*	30 A to 400 A AC	30 A to 600 A AC	300 mA to 20 A AC	300 mA to 20 A AC	3 A to 300 A AC
1577/1587 FC	0.1 A to 100 A DC/	1.2 A to 400 A DC/	1.2 A to 1000 A DC/	30 mA to 30 A DC/	30 mA to 30 A DC/	0.1 A to 450 A DC/
	0.3 A to 70 A AC*	30 A to 400 A AC	30 A to 600 A AC	300 mA to 20 A AC	300 mA to 20 A AC	3 A to 300 A AC
83V/88V	0.1 A to 100 A DC/	1 A to 400 A DC/	1 A to 1000 A DC/	30 mA to 30 A DC/	30 mA to 30 A DC/	0.1 A to 450 A DC/
	0.1 A to 70 A AC*	1 A to 400 A AC	1 A to 600 A AC	30 mA to 20 A AC	30 mA to 20 A AC	0.1 A to 300 A AC
87V	0.1 A to 100 A DC/	1 A to 400 A DC/	1 A to 1000 A DC/	30 mA to 30 A DC/	30 mA to 30 A DC/	0.1 A to 450 A DC/
	0.2 A to 70 A AC*	20 A to 400 A AC	20 A to 600 A AC	200 mA to 20 A AC	200 mA to 20 A AC	2 A to 300 A AC
287/289	0.1 A to 100 A DC/	1 A to 400 A DC/	1 A to 1000 A DC/	30 mA to 30 A DC/	30 mA to 30 A DC/	0.1 A to 450 A DC/
	0.1 A to 70 A AC*	1 A to 400 A AC	1 A to 600 A AC	30 mA to 20 A AC	30 mA to 20 A AC	0.1 A to 300 A AC
123/124	0.1 A to 100 A DC/ 0.25 A to 70 A AC	1 A to 400 A DC/ 25 A to 400 A AC**	1 A to 1000 A DC/ 25 A to 600 A AC**		30 mA to 30 A DC/ 250 mA to 20 A AC	0.1 A to 450 A DC/ 2.5 A to 300 A AC
190 Series II	0.1 A to 100 A DC/	1 A to 400 A DC/	1 A to 1000 A DC/	30 mA to 30 A DC/	30 mA to 30 A DC/	0.1 A to 450 A DC/
	0.1 A to 70 A AC	5 A to 400 A AC**	5 A to 600 A AC**	50 mA to 20 A AC**	50 mA to 20 A AC	0.5 A to 300 A AC
8808A	0.1 A to 100 A DC/	1 A to 400 A DC/	1 A to 1000 A DC/	30 mA to 30 A DC/	30 mA to 30 A DC/	0.1 A to 450 A DC/
	0.1 A to 70 A AC*	2 A to 400 A AC	2 A to 600 A AC	30 mA to 20 A AC	30 mA to 20 A AC	0.2 A to 300 A AC
8845A/8846A	0.1 A to 100 A DC/	1 A to 400 A DC/	1 A to 1000 A DC/	30 mA to 30 A DC/	30 mA to 30 A DC/	0.1 A to 450 A DC/
	0.1 A to 70 A AC*	1 A to 400 A AC	1 A to 600 A AC	30 mA to 20 A AC	30 mA to 20 A AC	0.1 A to 300 A AC
705/707	0.1 A to 100 A DC, no AC*	4 A to 400 A DC, no AC	4 A to 1000 A DC, No AC	40 mA to 30 A DC, no AC	40 mA to 30 A DC, no AC	0.4 A to 450 A DC, no AC
715	0.1 A to 100 A DC, no AC*	4 A to 400 A DC, no AC	4 A to 1000 A DC, No AC	40 mA to 30 A DC, no AC	40 mA to 30 A DC, no AC	0.1 A to 450 A DC, no AC
787B/789	0.1 A to 100 A DC/	1 A to 400 A DC/	1 A to 1000 A DC/	30 mA to 30 A DC/	3 mA to 30 A DC/	0.1 A to 450 A DC/
	0.2 A to 70 A AC*	20 A to 400 A AC	20 A to 600 A AC	200 mA to 20 A AC	200 mA to 20 A AC	2 A to 300 A AC
* Requires PM9081 Ad	dapter					



Accessories 165 Accessories Accessories

^{**} Requires PM9082/001 Adapter

Accessories

AC/DC Current Clamps



i410 AC/DC Current Clamp

This battery-powered Hall-effect probe measures 1 A to 400 A with large-claw clamp that gives access to difficult-to-reach areas. It is compatible with most multimeters and other devices that measure AC and DC current and accepts shrouded 4 mm banana plugs.

- On/Off LED indicator
- AC and DC current range: 1 A to 400 A
- Frequency range: DC to 3 kHz
- Safety rating: CAT III 600 V



i410-KIT AC/DC Current Clamp and Carry Case Kit

This special-value kit for electrical professionals adds AC and DC current measurement capabilities to a digital multimeter. A roomy carrying case holds a meter and the current clamp plus test leads, probes and manuals. Kit includes:

- i410 AC/DC Current Clamp
- C116 Soft Carrying Case



i1010 AC/DC Current Clamp

This clamp measures both ac and dc currents with a large-jaw, battery-powered Hall-effect probe that gives access to difficult-to-reach areas. It is compatible with most Fluke multimeters and any other devices that measure AC and DC current and accept shrouded 4 mm banana plugs.

- On/Off LED indicator
- AC current range: 1 A to 600 A AC
- DC current range: 0.5 A to 1000 A DC
- Frequency range: DC to 10 kHz
- Safety rating: CAT III 600 V RMS



i1010-Kit AC/DC Current Clamp and Carry Case Kit

This special-value kit for electrical professional adds AC and DC current measurement capabilities to a digital multimeter. A roomy carrying case holds a meter and the current clamp plus test leads, probes and manuals. Kit includes:

- i1010 AC/DC Current Clamp
- C116 Soft Carrying Case



i30 AC/DC Current Clamp

Based on Hall-effect technology, this battery-powered clamp measures both AC and DC current. It may be used in conjunction with multimeters, recorders and other suitable recording instruments for accurate non-intrusive current measurement.

- AC current range: 30 mA to 20 A RMS
- DC current range: 30 mA to 30 A
- Frequency range: DC to 20 kHz (-0.5 dB)
- Safety rating: CAT III 300 V



i30s AC/DC Current Clamp

Based on Hall effect technology, this battery-powered clamp measures both AC and DC current. It may be used with ScopeMeter® and other suitable recording instruments for accurate non-intrusive current measurement.

- AC current range: 30 mA to 20 A RMS
- DC current range: 30 mA to 30 A
- Frequency range: DC to 100 kHz
- Safety rating: CAT III 300 V



i310s AC/DC Current Clamp

Based on Hall-effect technology, this battery-powered clamp measures both AC and DC current. This clamp is especially useful for current measurements on inverters, switching power supplies, industrial controllers, automotive diagnostics, and other applications requiring current measurements and/or waveform analysis.

- AC current range: 0.1 A to 300 A
- DC current range: 0.1 A to 300 A
- Frequency range: DC to 20 kHz
- Safety rating: CAT III 300 V



80i-110s AC/DC Current Clamp

This clamp is compatible with ScopeMeters®, power harmonics analyzers, multimeters, and other voltage measurement devices that have BNC input connectors.

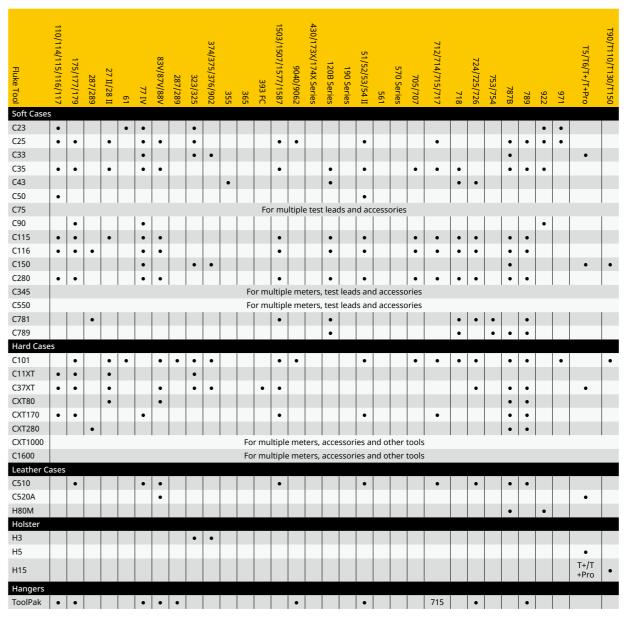
- $\bullet~$ AC current range: 0.1 A to 70 A
- DC current range: 0.1 A to 100 A
- Frequency range: DC to 100 kHz
- Optional PM9081/001 Dual Banana Plug Male to Female BNC Adapter is available for digital multimeters
- Safety rating: CAT II 600 V

Did you know?

Does your current probe read zero current when you clamp it around a power cord?

That's because the power cord has both the hot and neutral current carrying wire in it. If both wires are in the jaws of the clamp meter, the fields cancel each other out, and the current clamp will read nothing. You need to put just one current-carrying conductor in the jaw of the current clamp. If you don't have access to the separate wires within the cord, use a line splitter tool to avoid breaking the circuit.









Cases, Holsters and Hangers

Soft Cases



C25 Large Soft Case for DMMs

Zippered carrying case with padding and inside pocket for holding accessories.

- Made of polyester
- Dimensions (HxWxD): $218 \times 128 \times 64 \text{ mm} (8.6 \times 5 \times 2.5 \text{ in})$



C33 Soft Carrying Case

Zippered carrying case with durable vinyl exterior and belt loop. Inner pocket stores test leads and small accessories.

- Made of polvester
- Dimensions (HxWxD): $280 \times 115 \times 55 \text{ mm} (11 \times 3.6 \times 2 \text{ in})$



C35 Soft Carrying Case

Case top opens laterally to allow use of test tool without removing it from the case and includes a Velcro™ strap to secure the tool

- Made of durable polyester 600D
- Dimensions (HxWxD): $220 \times 140 \times 65 \text{ mm} (8.6 \times 5.5 \times 2.5 \text{ in})$



C43 Soft Carrying Case

Zippered carrying case includes inner front pocket with closure and two pockets to store test leads or small accessories

- Made of durable polyester 600D
- Dimensions (HxWxD): $318 \times 230 \times 90 \text{ mm} (12.5 \times 7.5 \times 3.5 \text{ in})$



C50 Meter Case

Zippered and padded case featuring an inside strap as well as a belt loop for convenient carrying. Also includes an inside pocket for holding accessories.

- · Made of polyester
- Dimensions (HxWxD): 192 × 90 × 38 mm (7.56 × 3.5 × 1.5 in)



C60 Accessory Case

The Fluke C60 is a soft case compatible with many Fluke test tools including: T6 and T5 Series, T+/T+PRO, 110 Series, 170

- Made of polyester
- Dimensions (HxWxD): 379 × 206 × 79 mm $(14.9 \times 8.1 \times 3.1 \text{ in})$



C75 Accessory Case

Zippered carrying case designed for carrying small accessories. Includes two inside pockets.

- Made of polyester
- Dimensions (HxWxD): $179 \times 103 \times 26 \text{ mm} (7 \times 4 \times 1 \text{ in})$



C115 Soft Carrying Case

Includes two padded pockets for protection of two test tools, and a pouch for test leads and other accessories.

- Made of durable polyester 600D
- Dimensions (HxWxD): $240 \times 205 \times 75 \text{ mm } (9.4 \times 8 \times 3 \text{ in})$



C116 Soft Carrying Case

Provides adjustable padded space with a moveable Velcro™ divider.

- Made of durable polyester 600D
- Dimensions (HxWxD): 240 × 230 × 65 mm $(9.4 \times 9 \times 2.5 \text{ in})$



C150 Soft Carrying Case

Zippered carrying case with inner pocket for storing test leads and small accessories.

- High quality 1000D fabric
- Dimensions (HxWxD): 298 × 114 × 56 mm (11.7 x 4.5 x 2.2 in)



C280 Soft Case

Designed especially for larger format test tools. Includes detachable, extendable shoulder strap and an inner front pocket with closure and dual pouch pockets for test tools and accessories.

- Made of durable polyester 600D
- Dimensions (HxWxD):
- $230 \times 185 \times 65 \text{ mm} (9 \times 7.3 \times 2.5 \text{ in})$



C345 Soft Case

The perfect case for carrying a wide range of Fluke handheld test tools and accessories. Includes an elastic accessory strap and mesh accessory retainer as well as an outer pouch, outer zipper packet and two slash pockets for convenient accessory storage.

- Made of durable polyester 600D
- Dimensions (HxWxD): 360 × 200 × 240 mm (14.2 x 7.8 x 9.4 in)

Cases, Holsters and Hangers



Pack30 Professional Tool Backpack

- Lightweight take the load off your
- Rugged, waterproof bottom base protects your tools and keeps them
- Over 30 pockets in six main storage compartments



C550 Tool Bag

Rugged, weather-resistant tool bag, features a large 25 pocket storage compartment and steel-reinforced frame.

• Dimensions (HxWxD): 333 × 513 × 231 mm (13.1 × 20.2 × 9.1 in)



TB25 Tool Bucket Organizer Bag

Tool bucket with a 5.2-gallon capacity, hard exterior shell, and plastic waterproof

- 19 interior and 9 exterior pockets
- Dimensions (HxWxD): 425 × 305 × 330 mm (16.7 × 12 × 13 in)



C570 Soft Case

Designed specifically for the Fluke 560 and 570 Series Infrared Theremometers

• Dimensions (HxWxD): 240 × 89 to 170 \times 56 mm (9.4 \times 3.5 to 6.7 \times 2.2 in)



C195 Soft Carry Case

Zippered with multiple storage compartments & shoulder strap

• Dimensions (HxWxD): 513 × 331 × 231 mm (16.7 × 12 × 13 in)



C125/C781 Meter Case

Zippered case, designed for carrying a meter as well as a detachable external pouch for holding test leads.

- Made of durable polyester 600D
- Dimensions (HxWxD): 269 × 141 × 90 mm (10.6 × 5.5 × 3.5 in)



C789 Meter and Accessory Case

Large carrying case with three compartments, removable handle, and shoulder strap. Holds a meter and multiple accessories.

- Made of durable polyester 600D
- Dimensions (HxWxD): 308 × 256 × 77 mm (12.1 × 10 × 3 in)



C799 Soft Field Case

For use with Fluke 750 Series Documenting Process Calibrators

- Allows instrument to be operated inside case with clear front protecting kevboard
- Dimensions (HxWxD): $305 \times 229 \times 165 \text{ mm}$) $(12 \times 9 \times 6.5 \text{ in})$



C101 Hard Case

Tough polypropylene case with configurable diced foam interior to store and protect tools and accessories.

• Exterior dimensions (HxWxD): 305 × 360 × 105 mm $(12 \times 14.2 \times 4.1 \text{ in})$

Hard Cases



C290 Hard Shell Protective Carry

- For use with Fluke 190 Series II ScopeMeters®
- Dimensions (HxWxD): 378 × 487 × 147 mm (14.88 × 19.17 × 5.78 in)



C1600 Gear Box

- A rugged, molded plastic case with a deep interior and lift-out tray.
- Includes five hook and loop straps to wrap cords and test leads
- Dimensions (HxWxD): 260 × 390 × 200 mm $(10.2 \times 15.3 \times 7.8 \text{ in})$



C11XT EVA Foam Hard Case

Includes a large pocket on one side for multiple accessories and a mesh pocket on the other side for one test tool.

- For use with 11x and 17x multimeters. and 32x clamp meters
- Dimensions (HxWxD): 240 x 155 x 105 mm (9.4 × 6.1 × 4.1 in)



C37XT EVA Foam Hard Case

Features a divider with elastic straps to hold one test tool, with two pockets and straps for accessories. Also includes space to secure an iFlex™ probe.

• Dimensions (HxWxD): 397 × 346 × 122 mm $(15.6 \times 13.6 \times 4.8 \text{ in})$



CXT Extreme Case Series

- CXT1000: for multiple meters, accessories and other test tools (Dimensions (HxWxD): 343 mm × 465 mm × 178 mm
- CXT1000 features a diced foam interior for custom storage configuration
- Unbreakable, watertight, airtight, dust proof, chemical resistant and corrosion nroof
- CXT80: for use with 87V, 80 Series, 187/189, 27 II/28 II series
- CXT170: for use with 170 Series. 114/115/116/117, 77 III, and 77 IV
- CXT280: for use with 287 or 289
- Dimensions (HxWxD): 279 × 318 × 127 mm (11 × 12.5 × 5 in)

Leather Cases



C510 Leather Meter Case

Rugged leather case features a large belt loop and a top flap to secure the tool. Made of top-grain cowhide with heavyduty stitching and reinforced rivets.

• Dimensions (HxWxD): $287 \times 179 \times 106 \text{ mm} (11.3 \times 7 \times 4.2 \text{ in})$



Holsters, Hangers and Light Kits

Holsters



H5 Electrical Tester Holster

Rugged fabric holster designed to hold Fluke T3 and T5 Electrical Testers. It features a built-in belt loop and flap for test lead storage.

• Dimensions (HxWxD): $192 \times 90 \times 38 \text{ mm} (7.5 \times 3.5 \times 1.5 \text{ in})$



HT6 Holster

For use with models T6-600

• Flap for test lead storage and built-in belt loop



H15 Electrical Tester Holster

Rugged fabric holster designed to hold Fluke T90, T110, T130 and T150 Two-Pole

- High quality 1000D fabric
- Dimensions (HxWxD): $279 \times 92 \times 51$ mm $(11 \times 3.6 \times 2 \text{ in})$



H80M Protective Holster with Magnetic Hanging Strap

Convenient snap-on holster with a magnetic hanging system enables hands-free work while protecting digital multimeters or calibration tools.

- Includes a hanging magnet, general purpose hanger, and hook/loop straps
- Dimensions (HxWxD): 190 × 95 × 43 mm (7.5 × 3.7 × 1.7 in)

170

Hangers



TPAK ToolPak™ Magnetic Meter Hanger

Hang your meter in a variety of ways for convenient hands-free operation. Attaches to the back of many Fluke meters, including 110, 170, 180, 280 Series, 83V and 87V DMMs, 724, 725 and 789 Process Calibrators, 70 Series III DMMs. 1503. 1507. 1577 and 1587 FC Insulation Multimeters and 50 Series II Digital Thermometers.

Lights



L200 Probe Light

Small, rugged light that easily attaches to any Fluke test probe, illuminates the contact area and frees hands for work.

- Bright white LED with 120 hours of battery life
- Two 3 V watch batteries included



L205 Mini Hat Light

Rugged, high-intensity Xenon work light with pre-focused optical-quality reflector attaches to a baseball cap to allow handsfree work.

- Includes waterproof ABS case that won't crack or chip
- Two AAA batteries included



L206 Deluxe LED Hat Light

Attach this water-resistant light to a hard hat, a baseball hat, or even a panel door for hands-free bright light where needed. Includes a 360° rotating clip, special hardhat attachment, and neck lanyard. (Hat not included).

- Three LEDs with 40-hour battery life
- Three AAA battery included



L210 Probe Light Kit

Two probe extenders 20 cm fit modular test probes and keep hands away from live circuits. Ultra-bright white LÉD provides 120 hours of battery life. Kit includes:

- L200 Probe Light
- SureGrip™ test probe extenders
- Two 3 V watch batteries included
- Probe extenders safety rating: CAT III 1000 V, 10 A



L211 Probe Light Kit

This special-value combo pairs the new L200 Probe Light with one of the most popular test leads by Fluke and a handy carrying case. Probe light attaches to any Fluke test probe to free both hands for work. Kit includes:

- L200 Probe Light
- TL71 Premium Test Lead Set
- C75 Accessory Case



L215 SureGrip™ Kit with Probe Light and Probe Extender

Kit includes:

- L200 Probe Light
- SureGrip™ Test Probe Extenders, 20 cm
- TP220 SureGrip™ Industrial Test Probes
- TL224 SureGrip™ Insulated Test Leads
- Foldable pouch with six pockets and hook & loop closure
- Safety rating:
- TP220: CAT II 1000 V, 10 A. (CAT III 1000 V, CAT IV 600 V with protective
- TL224: CAT III 1000 V, CAT IV 600 V,
- Probe extenders: CAT III 1000 V, 10 A

High Frequency

ACCESSORT



85RF High Frequency Probe

Converts a DC voltmeter with an input impedance of 10 megohms into a high frequency (100 kHz to 500 MHz) RF

- Voltage range: 0.25 V to 3 V AC RMS
- Maximum input: 30 V RMS, 200 V DC
- AC to DC ratio: 1:1
- Ratio accuracy at 25 MHz and loaded with 10 MΩ

Fiber Optics



FOM Fiber Optic Meter

Allows testing and maintenance of fiber optic cables without buying a new meter. It plugs directly into any digital multimeter with mV DC function and a 10 $M\Omega$ input impedance to quickly and accurately verify fiber optic cable system

- Wavelengths: 1550, 1300, 850 & nm
- Light sources sold separately



FOS-850 and FOS-850/1300 Fiber **Optic Light Source**

Both of these fiber optics accessories are designed to offer a variety of light sources for testing different cable lengths.

Wavelengths: FOS-850: 850 nm: FOS-850/1300: 850 and 1300 nm

Miscellaneous



IR189USB USB Cable Adapter

Included with FVFSC2 and FVF-Basic

• Small adapter to connect the cable to the 189, 287, 289, 1653B or the 1550C is included



SV225 Stray Voltage Adapter

Stray voltage can appear in electrical installations, due to the capacity between wires. This may result in erroneous readings on high impedance meters. The SV225 solves this without compromising

- · On energized wires, the meter will indicate the real voltage
- On non-energized circuits the meter will read close to zero (even if there are stray voltages)
- Can be used on all meters with standard 19mm (0.75 in) input spacing
- Safety rating: CAT III 1000 V, CAT IV 600 V

Note: This adapter should not be used on low-voltage control circuits or where the circuit under test could be adversely-affected by this low impedance load. The adapter is designed to handle continuously-applied power system voltages without damage. However, this adapter is intended to be used intermittently to rmine whether a circuit is energized.

Fluke Connect[™]



ir3000 FC Connector for Fluke Connect™

- Get all the benefits of the Fluke Connect™ app, and be on the same page, even while in different places
- Wirelessly share measurements with your team—anywhere, anytime
- Connect the Fluke 289/287 Multimeters, Fluke 1550C/1555 Insulation Testers and Fluke 789 ProcessMeter™ with the ir3000 FC



PC3000 Wireless PC Adapter

- Fluke pc3000 FC Adapter and software
- Must be connected to the USB port in order to enable communication between FC modules and software.
- SW3000 supports up to two pc3000 FC



Accessories Accessories





BP880 BNC to Female Double Stacking Banana Plug

Converts a BNC scope lead to a dual banana plug for connection to a digital multimeter to provide hands-free testing in controlled voltage environments.

- Voltage range: up to 500 V ac rms
- 4 mm banana plug is nickel-plated, beryllium copper for low contact



BP881 BNC to Male Double Stacking Banana

Easily connects a digital multimeter to a BNC patch cord to provide handsfree testing in controlled voltage environments. This adapter connects accessories that have a male BNC output.

- Voltage range: up to 500 V ac rms
- 4 mm banana plug is nickel-plated, beryllium copper for low contact resistance



TL28A Automotive Test Lead Set

Silicone-insulated test leads (red, black) with large, solid copper alligator clips with 12.7 mm opening and serrated teeth.

- 1.5 m test leads
- Safety rating: 30 V, 10 A



TL82 Automotive Pin and Socket Adapter Set

This collection of male and female adapters provides firm connection to pinand-socket connectors. Rated to 60 V dc. Set includes:

- Two retractable shrouded test leads (red, black) 1.2 m
- Eight pin-and-socket adapters with flexible tips (red, black):
 - Size 22 contact 0.76 mm, rated 5 A
- Size 20 contact 1.02 mm, rated 7.5 A
- Size 16 contact 1.60 mm, rated 13 A
- Size 12 contact 2.36 mm, rated 23 A



TLK281 SureGrip™ **Automotive Test Lead Kit**

Sharp stainless steel probes can be used to contact the wire conductor or pinpoint tests on a circuit or relay while the largejaw alligator clips ensure a good ground on the engine or connection to battery terminals. Rated to 60 V dc. Kit includes:

- TP81 Insulation Piercing Clip Set
- TL224 SureGrip™ Insulated Test Leads
- TP220 SureGrip™ Industrial Test Probes
- AC220 SureGrip™ Alligator Clips AC285 SureGrip™ Alligator Clips
- Soft case



TLK282 SureGrip™ Deluxe Automotive Test Lead Kit

This kit includes everything in the TLK281 Kit plus a few extras. The back probe pins slide past weather-pack connectors on fuel injectors, TPS, and MAP sensors. A hook probe with plunger actuation allows quick connection to pins or exposed conductors. Rated to 60 V dc. Kit includes:

- TP81 Insulation Piercing Clip Set
- TP40 Automotive Back Probe Pins (five)
- TL224 SureGrip™ Insulated Test Leads
- TP220 SureGrip™ Industrial Test Probes
- AC220 SureGrip™ Alligator Clips AC285 SureGrip™ Alligator Clips
- AC280 SureGrip™ Hook Clips
- Soft case



TP40 Automotive Back Probe Pins

Flexible and formable 31-75 mm pins provide an easy connection past weatherpack seals to connector conductors. These five pins are a must-have for fuel injectors, TPS, and MAP sensors, as well as for any under-hood or under-vehicle connector with weather-pack seals.

- 4 mm banana jack accepts digital multimeter and banana jack leads
- Easily connects to modular leads
- Rated to 60 V DC



TP81/TP82 Insulation Piercing Clip Set

Two stainless steel probes (red, black) pierce insulation on 14, 16 and 18 gauge wire. Needle depth can be controlled to minimise insulation damage. Essential for use under hood or under dash. Can be used on fuel injectors or sensors while providing complete insulation to grounding. Probe connects to a banana jack that accepts all digital multimeter and banana jack leads (such as the TL224 SureGrip™ Insulated Test Leads).

- TP81 has non-rotating 4 mm banana jack to prevent leads from tangling
- Rated to 60 V dc
- TP82 is for use with test leads with 2 mm probes



TP88 Rigid Back Probe Pins

Better than a test probe alone, these rigid back probe pins easily pass between a weather-pack seal and wire. A sharp point ensures good contact to the electrical connector, and insulation protects the pin from shorting to other wires. Rated to 60

- Slides onto 2 mm test probes
- Probe length: 51 mm



RPM80 Inductive Pick-Up/External Trigger

- Provides RPM measurement capability when clipped on spark plug wire
- For use with Fluke 88 Series and 78 Series Digital Multimeters.



Compatibility Chart	120B Series	190 Series III
voltage probes		
VPS41 Voltage Probe Set 10:1, 40 MHz, BI (Black)	•	
VPS410-II-X Ind. Voltage Probe 10:1, 500 MHz, × = B (Blue), G (Grey), R (Red) or V (Green)		•
VPS421-X High working voltage ruggedized probe set, 100:1, 150 MHz, x= B (Blue), G (Grey), R (Red) or V (Green)		•
VPS210-X Voltage Probes, 200 MHz, R (Red), G (Grey)		
STL120-IV Shielded Test Lead Set 1:1, B (Blue) & R (Red)	•	
probe accessories		
AS400 Probe Accessory Extension Set 1		•
RS400 Probe Accessory Replacement Set for VPS400 Series Voltage Probes		•
RS500 Probe Accessory Replacement Set for VPS510 Series Voltage Probes		•
AC current clamps		
i3000s AC Current Clamp	•*	•
i3000s Flex-24/36 AC Current Clamp, 610 mm (24 in. and 36 in.)	•*	•
i1000s AC Current Probe	•*	•
i400s AC Current Clamp	•*	•
i200s AC Current Clamp	•*	•
i5s AC Current Clamp	•*	•
AC/DC Current Clamps		
80i-110s AC/DC Current Clamp	•*	•
i1010 AC/DC Current Clamp	•	•
i410 AC/DC Current Clamp	•	•
i30s AC/DC Current Clamp	•*	•
Automotive		
SCC128 Automotive Troubleshooting Kit for 120 Series	•	
SCC198 Automotive Troubleshooting Kit for 190 Series		
SCC298 Automotive Troubleshooting Kit for Fluke 190 Series II		•
Test Lead Accessories		
TL175 TwistGuard™ Test Leads	•	•
Cables and Adapters		
PM9091 50 Ω Coaxial BNC Cable Set (3 × 1.5 m)		•
PM9092 50 Ω Coaxial BNC Cable Set (3 × 0.5 m),		•
PM9093 Male BNC to Dual Female BNC Adapter, CAT III 600 V		•
PM9081 Dual Banana Plug (Male) to Female BNC Adapter, CAT III 600 V		•
PM9082 Dual Banana Jack (Female) to Male BNC Adapter, CAT III 600 V		•
BB120-II Shielded Banana to Female BNC Adapter*	•	
TRM50 Coaxial Feed-through BNC Male to BNC Female Cable Terminator		•
Miscellanous		
700-IV Current Shunt		
EBC290 External Battery Charger for BP290 and BP291	•	•
BC190/830 Mains Adapter/Battery Charger		•
BC430/820 Mains Adapter/Battery Charger	•	
BP190 Rechargeable NiMH Battery Pack		•
BP290 Li-ion Battery Pack, 2400 mAh	•	•
BP291 Li-ion Battery Pack, 4800 mAh		•
OC4USB USB Interface Cable	•	•
BHT190 Break-Out Adapters for Industrial Bus Connections	125B only	
HH290 Hanging Hook for ScopeMeter® 190-Series II	.222 2,	•

^{* &}quot;s" version clamps require BB120-II Adapter when used with the Fluke 120B Series



Cases, Holsters and Hangers



VPS421-X High Working Voltage Ruggedized Probe

- Set includes: VPS421-X 100:1, 150MHz
- X = Red, Blue, Grey or Green
- 100:1 Voltage Probe, with safety shrouded 4 mm tip 1 red / black
- Hook Clip for 4 mm shrouded Probe Tip (black)
- Reference Lead with 4 mm Banana Plug (black)
- Alligator Clip for 4 mm Banana Plug (2 black)
- Test Probe for 4 mm Banana Plug (black)



AS400 Probe Accessory Extension Set

For VPS400 Series Probes

- CAT III 1000 V/CAT IV 600 V
- Reference lead w/ 4 mm plug (Blk)
- Reference lead with hook clip (Blk) 22 cm
- Large jaw probe clip (black)
- CAT II 1000 V
- 2 mm test probe for probe tip (1×,
- 4 mm test probe for probe tip (1×, black)



RS400 Probe Replacement Set

For VPS400 Series Probes and VPS210 Series Probes

- CAT III 1000 V/CAT IV 600 V
- 1× Probe hook clip (black)
- Ground lead w/ mini alligator clip
- 2× Insulation sleeve (black)
- 2× Ground spring (black)



RS500 Probe Replacement Set

For VPS510 Series Probes

- CAT II 300 V
- 1× hook clip (black)
- 1× ground lead with mini alligator clip
- 2× insulation sleeves for probe's ground contact (black)
- 1× BNC to probe tip adapter (black)
- 2× ground browsers (black)
- 1× insulated mini screwdriver, for probe adjustment purposes



TP920 Test Probe Adapter Set

Suited for STL120 Test Leads (STL120-III, not compatible), TL71, TL75 & TL76 Test

• Rated for 3 A max



PM9091 Set of 3× Coaxial Cables with **BNC** connectors

- Length: 1.5 m each
- Impedance: 50 Ω
- Color: 2× Red, 2× Black, 2× Grey
- Max signal voltage: 300 Vrms
- Max voltage to ground: CAT III 600 V per IEC 61010-031



PM9092 Set of Coaxial Cables with **BNC connectors**

- Length: 0.5 m each
- Impedance: 50 Ω
- Color: 1× red, 1× black, 1× grey
- Max signal voltage: 300 V
- Max voltage to ground: CAT III 600 V per IEC 61010-031



PM9093 Adapter BNC (male) to Dual BNC (female) in T model (6)

- Color: 2× black
- Max signal voltage: CAT III 300 V per IEC 61010-031
- Max voltage to ground: CAT III 600 V



PM9081 Adapter BNC (female) to Dual Banana Jack

- Color: 2× red, 2× black
- Max signal voltage: CAT III 600 Vrms per IEC 61010-031
- Max voltage to ground: CAT III 600 V / CAT II 1000 V per IEC/EN61010



PM9082 Adapter BNC (male) to Dual Banana Jack

- Color: 2× red, 2× black
- Max signal voltage: CAT III 600 V per IEC 61010-031
- Max voltage to ground: CAT III 600 V / CAT II 1000 V per IEC/EN61010



HC120 Hook Clips

- Color: 1× red, 1× grey
- Max voltage: CAT III 600 V per IEC 61010-031
- Nickel plated steel



BB120-II Adapter BNC (female) to Shielded Banana Jack

- Set of 2
- Max signal voltage: CAT III 300 V per IEC 61010-031
- Max voltage to ground: CAT III 600 V per IEC 61010-031



TRM50 Coaxial Feed-through BNC (Male) to BNC (female) Cable **Terminator**

- Set of 2
- Impedance: 50 Ω
- Max voltage over ground: CAT III 1000
- Max power 1 W



BHT190 Bus Health Test Break-out Adapter Set

- Board with M12 connectors (male to female, 5 pins)
- DB-9 connectors (male to female, 9
- RJ-45 connector, with short patch cable providing male to female interconnection (8 pins)



EBC290 External Charger

For Fluke 120B and 190 Series II and Series III ScopeMeter® Oscilloscope

- Charging time (BP291): five hours, giving an operating time of up to seven
- DC input voltage: 15 V to 23 V, 714 mA nom. (DC input from BC190: 17.8 V / 0.84 A max)
- · Power supply not included



Fluke Model Number	i3000 Flex 4PK	i400s	i430-FLEXI-TF-II	i5sPQ3	3210-PR -TF-II
Description	4 phase 3000 A Flexible current clamp set	Single phase 400 A current clamp (4 required)	4 phase 3000 A Flexible current clamp set	3 phase 5 A Current clamp set	1000 A Single phase flexible current clamp
Fluke 1750					•
Fluke 43X -II	•	•	•	•	
Nominal current range(s)	30 A 300 A 3000 A	40 A 400 A	3000 A	5 A	1000 A
Cont. AC current range	1 A 30 A 1 A 300 A 1 A 2400 A	0.5 A 40 A 5 A 400 A	30 A 3000 A	0.01 A 6 A	0.5 A 1000 A
Highest current	4000 A	1000 A	100 kA	70 A	1000 A
Lowest measurable current	1 A	0.5 A	30 A	10 mA	0.5 A
Basic accuracy (48 65 Hz) ¹	2% + 2 A	2% + 0.15 A	1%	1%	±1% of reading
Usable frequency	10 Hz 100 kHz	45 Hz 3 kHz	10 Hz 7 kHz	40 Hz 5 kHz	40 Hz 5 kHz
Flex head length		Clamp opening: 32 mm	61 cm	Clamp opening: 15 mm	61 cm
Output level(s)	10 mV/A 1 mV/A 0.1 mV/A	10 mV/A 1 mV/A	0.08 mV/A @50 Hz	400 mV/A	2 mV/A
Output cable (m)	2.1	2.5	2.5	2.5	3
Safety rating	CAT III 600 V	CAT III 1000 V CAT IV 600 V	CAT III 1000 V CAT IV 600 V	CAT III 600 V	CAT III 1000 V CAT IV 600 V

¹ Basic accuracy: % reading plus floorspec. n/a = not applicable

Fluke Model Number	Fluke i17XX-Flex 1500A 12 IN	Fluke i17XX-Flex 3000A 24 IN	Fluke i17XX-Flex 6000A 36 IN	Fluke i17XX i40s-EL Clamp- On Current Transformer	Fluke i17XX-Flex 1500A 12 IN	Fluke i17XX-Flex 3000A 24 IN	Fluke i17XX-Flex 6000A 36 IN
Description	1500 A Single phase flexible current clamp IP50	3000 A Single phase flexible current clamp IP50	6000 A Single phase flexible current clamp IP50	4/40 A Current clamp (3 required)	1500 A Single phase flexible current clamp IP65	3000 A Single phase flexible current clamp IP65	6000 A Single phase flexible current clamp IP65
Fluke 1742/46/48				•	•	•	•
Fluke 1732/34/36/38	•	•	•	•			
Nominal current range(s)	1 A to 150 A, 10 A to 1500 A	3 A to 300 A, 30 A to 3000 A	6 A to 600 A, 60 A to 6000 A	40 mA to 4 A, 0.4 A to 40 A	1 A to 150 A, 10 A to 1500 A	3 A to 300 A, 30 A to 3000 A	6 A to 600 A, 60 A to 6000 A
Cont. AC current range	1 A 150 A 10 A to 1500 A	1 A 300 A 10 A 3000 A	1 A 600 A 10 A 6000 A	1 A 150 A 10 A 1500 A	1 A 150 A 10 A to 1500 A	1 A 300 A 10 A 3000 A	1 A 600 A 10 A 6000 A
Highest current	1500 A	3000 A	6000 A	200 A	1500 A	3000 A	6000 A
Lowest measurable current	1 A	3 A	6 A	0.04 A	1 A	3 A	6 A
Basic accuracy (48 to 65 Hz) ¹	0.70%	0.70%	0.70%	0.50%	0.70%	0.70%	0.70%
Usable frequency	40 Hz to 5 kHz	40 Hz to 5 kHz	40 Hz to 5 kHz	40 Hz to 5 kHz			
Flex head length	30.5 cm (12 in)	61 cm (24 in)	122 cm (48 in)	n/a	30.5 cm (12 in)	61 cm (24 in)	122 cm (48 in)
Output level(s)	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Output cable (m)	2	2	2	2	2	2	2
Safety rating	CAT III 1000 V CAT IV 600 V	CAT III 1000 V CAT IV 600 V	CAT III 1000 V CAT IV 600 V	CAT III 1000 V CAT IV 600 V	CAT III 1000 V CAT IV 600 V	CAT III 1000 V CAT IV 600 V	CAT III 1000 V CAT IV 600 V

¹ Basic accuracy: % reading plus floorspec. n/a = not applicable



Power Quality Accessories

Fluke 430 Series-II



i430-FLEXI-TF-II/4PK 6000 A Thin **Flexible Current Probe**

- 6000 A current range
- 61 cm (24 in) length
- Available in single and 4 pack



i400s AC Current Clamp

- 400 A AC current range
- 32 mm (1.25 in) jaw size
- Optional PM9081/001 Dual Banana Plug Male to Female BNC Adapter is available for digital multimeters



I5SPQ3 5 A Current Clamp, 3 pack

- 5 A AC Current Clamp for 430 Series-II
- 15 mm (0.6 in) jaw size



TLS430 Test Lead and Alligator Clip

- Test lead replacement set for the 430 Series-Iİ
- Set includes five test leads and five alligator clips (4 black, 1 green)



WC100 Color Coding Clips and **Regional Decals**

Cable markers for 3-phase +N leads



C1740 SOFT CASE

176

Soft Case with compartments and shoulder strap for 430 Series II



C437-II Hard Case

Black waterproof case with wheels



BP290 Battery

430 Series-II Replacement Battery Pack



BP291 Battery

430 Series-II Double Capacity Replacement Battery Pack



BC430/820 Battery Charger

Battery Charger for 430 Series II

Fluke 1730 & 1740 Series



I17XX-FLEX iFlex™ Current Clamps

- iFlex[™] probes connect directly to the 173X Energy or Power Logger, displaying current measurements without error, prone scaling factors
- Fluke 17XX iFlex™ cables are available in 30.5, 61, and 91.5 cm (12, 24, and 36 in) models
- Available to order in single, three, or four pack



I17XX-FLEX IP65 Current Probes

IP65 rating is obtained when connected to the 1740 Series only.

- 1.5 kA 61 cm (24 in) length • 3 kA 61 cm (24 in) length
- 6 kA 122 cm (48 in) length Available in single, 3 and 4 packs



3PHVL Voltage Cable Assembly

- · Voltage Measurement Lead Set for
- Flat, four wire cable

Power Quality Accessories

FLUKE-174X GPS-REC

GPS Receiver Antenna

F17XX CABLE MARKERS

BP1730-BATTERY

Pack

Cable Marker Kit for 173X, 174X and 177x

173X & 174X Series Replacement Battery

1730-CABLE Auxiliary Input Cable

Auxiliary input adapter for 1740 Series

• Binder to BNC connecting cable

Input -10 V to +10 V DC

17XX AUX



17XX i40s-EL Clamp-on Current **Transformers**

- Suitable for making measurements up to 40 A, and also measures accurately on 1 A and 5 A secondary current
- The i40s-EL jaw is capable of being clamped on current conductors up to 15mm in diameter



MP1-Magnet Probe 1

Magnetic probe tips for voltage test leads with 4 mm banana connectors.



MP1-3R/1B Magnetic Voltage Probes

3 Red/1 Black Magnet Probes for 4 mm



I17XX-FLEX5M-EXT

Fluke 17XX IFLEXI Extension Cable 5 m



FLUKE-17XX-TL 0.2M Test Lead Set

- CAT III 1000 V. Non-Stack Conn:
- Available in:0.2 m; Red/Blk



Fluke 1730-HANGER STRAP

Two piece hanging kit for the Fluke 173X Energy or Power Logger.



FLUKE-174X-HANGER

Hanger Kit includes strap and magnetic hanger used with 174X Series.

Fluke 1750/ET



61 cm (24 in)

• 61 cm (24 in) length, 20 cm (7.8 in) diameter



• 61 cm (24 in) length, 20 cm (7.8 in)



3312-PR-TF-II 1000 A Thin FLEXI

5000 A AC Current Range



I5S-PR 1750, 5 A Current Clamp

5 A AC current range

• 15 mm (0.6 in) jaw size



I40S-PR 1750. 40 A CURRENT CLAMP

• 15 mm (0.6 in) jaw size

4000 A AC Current Range



3210-PR-TF-II 1000 A Thin FLEXI

1000 A AC Current Range



61 cm (24 in)

5000 A AC Current Range



122 cm (48in)

• 122 cm (48 in) length, 38 cm (15 in)





40 A AC Current Range



1750/CASE Transit Case

Rugged-hard water tight transit case with



TPS FLEX 24-TF-II Thin Flexible **Current Probe**

200 A/1000 A AC current range

• 61 cm (24 in) length, 20 cm (7.8 in) diameter



TPS FLEX 36-TF-II Thin Flexible **Current Probe**

3000 A/6000 A AC current range

• 91 cm (36 in) length, 29 cm (11.4 in) diameter



TPS Clamp 10 A/1 A Clip-on Current Transformer

Three 15 mm (0.6 in) options available

- TPS Clamp 10 A/1 A Clip-on Current Transformer – 1 A/10 A AC • TPS Clamp 200 A/20 A Clip-on Current
- Transformer 20 A/200 A AC • TPS Clamp 50 A/5 A Clip-on Current Transformer – 5 A/50 A AC

Fluke NORMA 6000



80I-2010S Current Clamp

- Measure up to 2000 A AC and/or DC on large conductors with 0.8% accuracy
- 81.5 mm (3.2 in) jaw opening

80I-2010S/3PK Current Clamp

• 3 pack. Measure up to 2000 A AC and/ or DC on large conductors with 0.8% accuracy.



Accessories Accessories



Fluke 805 FC Vibration Meter



805ES External Sensor Assembly

External vibration sensor that is ideal in situations where it is either difficult or impractical to use the onboard vibration sensor tip of the 805 Vibration Meter

- Low-profile 90-degree sensor body allows the sensor to get into tight spots
- Rugged, coiled cable minimizes dangling, while stretching to more than 2.1 m (7 ft) when needed
- Powerful "U" shaped magnet mount creates a firm connection to flat, or curved measurement surfaces

Fluke 810 Vibration Tester



810QDC Quick Disconnect Cable

2.4 m (8 ft) quick-disconnect cable connects the triaxial vibration sensor



810SC-20 Sensor Cable

6.1 m (20 ft) cable connects the triaxial vibration sensor to the Fluke 810 Vibration Tester



810S Triaxial Vibration Sensor

Triaxial vibration sensor captures vibration data in all three primary axes simultaneously for faster, more accurate data collection



810SMM Sensor Magnetic Mounts

- High-power magnet attaches firmly to motors and machinery
- Parallel magnet tips engage both flat and cylindrical surfaces



810SMP Sensor Mounting Pads for Vibration Sensors (pack of 10)

10-pack of Sensor Mounting Pads provide standardized sensor attachment points on critical equipment.



810T Tachometer

- Noncontact tachometer for use with the Fluke 810 Vibration Tester; to measure the speed of motors; conveyor belts; and other moving and rotational systems
- Measures from 6 to 99 999 rpm with accuracy to +/-0.05%
- Takes noncontact measurements using a laser beam that works at a distance of 1 to 100 cm for user safety
- Integral 50 cm cable connects the tachometer to the vibration tester for power and measurement data recording



810PA AC Power Adapter

AC power adapter with international plug set



SBP810 Smart Battery Pack

Lithium-ion battery pack provides eight hours of runtime under normal operating conditions

Fluke 830 Laser Alignment



830/SHIMS Precision Alignment Shim

- Stainless steel precut shims are more accurate and designed to speed up the alignment job, when even minutes of downtime count.
- Burr-free for higher accuracy in alignment
- Time-saving permanent thickness/ dimension marking
- Reusable, corrosion-resistant highquality stainless steel
- Two machine foot sizes and eight thicknesses that fit almost all machine foot

NOTE:

700PTPK2 Pneumatic Test Kit

- Combine with any Fluke 700G Series Gauge, 1000 psi (69 bar) or less, to make a complete pressure testing kit
- Generate pressure up to 600 psi, 40 bar with the 700PTP-1 test pump
- Connect the 700G Series gauge directly to the included PTP-1 hand pump



700HTPK/2 Hydraulic Test Kit

- Combine with any Fluke-700G Series Gauge, 1000 psi (69 bar) range or greater, to make a complete pressure testing kit
- Generate pressure up to 10 000 psi, 690 bar with the included 700HTP-2 test pump
- Connect the 700G Series gauge directly to the HTP-2 hand pump



700LTP-1 Low Pressure Test Pump

- Hand-operated pressure pump designed to generate either vacuum to -13 psi / -0.90 bar or pressure to 100 psi / 6.9 bar
- Has two pressure ports with quick fit connectors
- For use with Fluke 750 Series Pressure Modules and Fluke 717 Pressure Calibrators



700PTP-1 Pneumatic Test Pump

A handheld pressure pump designed to generate either vacuum to -11.6 psi/-0.8 bar or pressure to 600 psi/40 bar



700HTP-2 Hydraulic Test Pump

- Generate pressure up to 10000 psi/700bar
- Use the Fluke 700PRV adjustable relief valves to limit pressure from 1360 psi to 5450 psi



71XTrap Liquid and Dirt Trap

- Works with pressure up to 500 psi
 Designed to work with the Fluke 7°
- Designed to work with the Fluke 718 and 719PRO



71X, Hose Kit

PROCESS CALIBRATION ACCESSORIES

- Compatible with Fluke 717 and 718 calibrators 100 psi and below
- Kit contains three translucent hoses (1 m long) and one 1/8 to ¼ NPT female-female adapter



700ILF In-line Filter

- Can be used to isolate the calibrator from incidental contact with fluids
- Useful with the 718 Fluke calibrator to help keep moisture or oils from contaminating the on-board pump



700HTH-1 Hydraulic Test Hose

• 10 000 psi, 690 bar working pressure test hose



700PMP Pressure Pump

- Provides pressure up to 150 psi/1000 kPa
- Output fitting is 1/8 FNPT



720RTD RTD Probe

Fluke-720RTD Temperature Probe is for use with Fluke 721 Precision Pressure Calibrators and Fluke 719Pro Electric Pressure Calibrators

• 10 inch (254 mm) insertion depth with 1/4 inch (6.3 mm) diameter stainless steel sheath



720URTDA Universal RTD Adapter

Fluke Universal RTD Adapter 720URTDA for Fluke 721 Precision Pressure Calibrators and Fluke 719Pro Electric Pressure Calibrators



Fluke-700TTH5K Premium Test Hose Kit

- Easy to use premium pressure transmitter test hose kit for connection to 1/4" female metric/BSP
- 5000 psi rating
- Includes 6 mm (1/4 in) NPT connection for permanent mount to a calibrator or test pump



Fluke-700TTH10K Premium Test Hose

- Easy to use premium pressure transmitter test hose kit for use with female M20 connections
- 6 mm (1/4 in) NPT
- Includes: One (1) 10 000 psi rated, premium test hose; Premium, no tools required M20 adapter



700-IV Current Shunt

- Conversion factor: 10 mV = 1 mA
- Accuracy (% of input, one-year): 0.02%
- Input current: 0 mA to 55 mA
- Input resistance: 250 Ω nominal
 Output resistance: 10 Ω nominal
- Output resistance: 10 Ω nominal



700PRV Pressure Relief Valve Kit

- Consists of a relief valve settable from 725 to 5800 PSI (50 to 200 bar) to be used with the 700HTP-1 Hydraulic Test Pump
- The 3 mm (1/8 in) NPT male thread to fit directly into the Fluke 700HTP-1 Pressure Pump



BP7235 NiMH Battery Pack

- 7.2V 3500 mAh rechargeable NiMH battery pack
- Provides typical 16-hour battery life when used in 700 or 740 Calibrator
- Dimensions: 150 × 56 × 22 mm (5.9 × 2.2 × 0.8 in)
- Weight: 310 g (11 oz)



BP7240 Li-Ion Battery Pack

Battery pack for Fluke 75X
 Documenting Process Calibrators











Models	P/N 803293 11A 1000V	PN 943121 440 mA, 1000 V	P/N 2279339 315 mA 1000V	P/N 4016494 440 mA fuse assembly
107, 115, 117	•			
175, 177, 179, 83V, 87V, 287, 289. 27 II, 28 II, 88V, 77 IV, 87V MAX	•	•		
3000 FC, 1577, 1587 FC BT508, BT510, BT521		•		
787, 787B, 789		• qty 2		
1503, 1507			•	
28 II Ex	•			•



Take your Fluke tools even further with the ability to analyze, interrogate remotely, export and create in depth reports on your PC and smart phone via Fluke's extensive software and application library.

Industrial imagers and	Fluke Connect™ Desktop	PTi120 400C Pocket Infrared Camera TiS20+/TiS20+ Max/TiS55+/TiS75+/TiS60+ Ti480Pro/TiX580 Infrared Camera	Free download via www.fluke.com
infrared cameras	Fluke SmartView™	Fluke VT06/08 Visual Infrared Thermometers TiS20+/TiS20+ Max/TiS55+/TiS75+/TiS60+ Ti480Pro/TiX580 Infrared Camera	Free download via www.fluke.com
	Fluke Baseline	Ti300/400/400+/450/401PRO/480/480PRO, TiX500/501/580/520/560 vInfrared Cameras	Free download via www.fluke.com
Fluke Connect™	Fluke SW3000FC	Fluke Connect™ Modules, 3000FC DMM, 902FC, 376FC/375FC/374FC Must be used with PC3000FC USB dongle	Free download via www.fluke.com
ScopeMeters™	FlukeView™ for ScopeMeter™	Fluke 190 Series II ScopeMeters™, Fluke 120 Series ScopeMeter™, Fluke 19xB/C Series, Fluke 2x5C Series,	Sold separately
	FlukeView™2 for ScopeMeters™ (Sold as SW90W)	Fluke 190 Series III ScopeMeters™ 120B Series ScopeMeters™ MDA-510/550/550-III Motor Drive Analyzer ScopeMeter™	Sold separately
	Energy Analyze Plus	Fluke 1748/1746/1742, Fluke 1738/1736/1734/1732, 1730 Power & Energy Loggers	Free download via www.fluke.com
Power quality tools	PowerLog 430-II	Fluke 438-II/437-II/435-II/434-II Power Quality Analyzers	Free download via www.fluke.com
	PowerLog Classic	Fluke 345, VR1710, 1735 and 435/434/433 Power Quality Analyzers	Free download via www.fluke.com
	Power Analyzer Software	Norma 6000 Series	Free download via www.fluke.com
Battery testers	Battery Management Software	Fluke BT521/BT5210/BT510 Battery Testers	Free download via www.fluke.com
	DPC/TRACK2	Fluke 754/753 Documenting Process Calibrators	Sold separately
Process calibration tools	709H/Track HART™ Communications Software	Fluke 709/H Precision Loop Calibrator with HART	Sold separately
riocess calibration tools	700G/Track	Fluke 700G Pressure Gauges (with Interface Cable)	Sold separately
	FLUKE-730PCSWCN	Fluke 730G Smart Digital Pressure Calibrator	Sold separately
Vibration and alignment	Viewer Software	Fluke 810 Vibration Tester	Free download via www.fluke.com
	FlukeView™ Forms Basic FVF-SC5 (no cables included)	Software only, no cable (for all instruments listed below)	
General meters and testers	FlukeView™ Forms Basic FVF-BASIC (with USB/IR cable)	Fluke 289/287 Multimeters, 789/787B ProcessMeters™, 1555/1550B Insulation Resistance Testers, 180 Series Meters	
	FlukeView™ Forms plus Designer FVF-SC2 (with USB/IR cable)	Fluke 1664FC/1663/1662, 1654B/1653B/1653/1652C Multifunction Installation Testers, Fluke 55-II B/53-II B Thermometers	Sold separately
	FlukeView™ Forms plus Designer FVF-SC4 (with USB/Serial cable)	Fluke 8846A, 8845A, 8808A, 45 Bench Digital Multimeters	
	FlukeView™ Forms plus Designer FVF-UG	Software only upgrade, from FlukeView™ Forms Basic to FlukeView™ Forms plus Designer	
Solar data management	Fluke TruTest™ Solar Data Management and Reporting Software	Fluke SMFT-1000 Multifunction PV Tester and Performance Analyzer	Sold separately www.fluke.com







PROFESSIONAL DATA COMMUNICATION

TOOLS AND TESTERS

VERSIV COPPER/FIBER CABLE CERTIFIER

The Versiv[™] family accelerates every step of the certification process. Future-ready design supports copper certification, fiber loss, OTDR testing and hardware upgrades. The revolutionary ProjX[™] management system and Taptive[™] user interface ensures jobs are done right the first time. Analyze test results and create professional test reports using LinkWare management software.



DSX CableAnalyzer™ Series Copper Cable Certifiers



CertiFiber® Pro Optical Loss Test Set



OptiFiber® Pro OTDR Family



FI-7000 FiberInspector™ Pro



FI-3000 and FI2-7300 FiberInspector™ Ultra Camera



LinkWare™ Live - Copper/Fiber cable testing and certification management service



LinkWare™ PC Cable Test Management Software



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COPPER/FIBER CABLE TROUBLESHOOTING AND **NETWORK CONNECTIVITY**

MicroScanner™ Industrial Ethernet Cable Verifier

- Graphically displays length, wiremap, opens/shorts and distance to fault
- Detects the class (0-8) from PoE, PoE+ and PoE++ (802.3at/af/bt) switches
- Identifies presence and speed of an active switch connected to the cable
- Tests RJ-45 connections and includes adapters for M8D, M12D, and M12X connectors



Fiber Media Converter

- Test fiber optic network ports with any LinkIQ™ Tester
- Connects to 1 Gb/s (1000BASE-SX, 1000BASE-LX) and 10 Gb/s (10GBASE-SR, 10GBASE-LR) fiber Ethernet ports through a media converter and SFP (1G/10G) using single-mode or multimode optic fiber cables
- Compatible with LinkIQ Cable+Network Tester and LinkIQ Duo Cable+Wi-Fi+Network Tester
- Fiber optic network testing features including: IPv4 and v6 ping, nearest switch diagnostics (IP address, name, port / VLAN number)
- Battery bank for portable operation

LinkIQ™ Industrial Ethernet Cable

+ Network Tester

- Cable Performance testing up to 10GBASE-T via frequency-based measurements
- Network features including: IPv4 and v6 ping, nearest switch diagnostics (IP address, name, port / VLAN number, and advertised data rates)
- Ethernet Alliance certified PoE Verification – Detects the PoE class (1-8) and power, and performs a load test of available PoE from the connected switch
- Displays cable length, wire map, and distance to open or
- Manage results and print reports from LinkWare™ PC
- Tests RJ-45 connections and includes adapters for M8D, M-12D, and M-12X





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Search for: FMC-1G, FMC-10G

SOLUTIONS FOR FIBER OPTIC CONTAMINATION

The #1 problem affecting Industrial Ethernet fiber cables.

FI-500 FiberInspector™ Micro

- PortBright™, a built-in flashlight illuminates dark areas
- Autofocus for stable images in seconds
- Large display to view fiber endfaces
- Includes 4 UPC tips (LC, SC, 1.25 mm and 2.50 mm)
- APC, Bulkhead tips available
- Autocenter for precise fiber ferrule inspection



Fiber Optic Cleaning Kits

• The complete solution for precision end-face fiber optic cable cleaning





FEATURED COPPER CABLE TEST SOLUTIONS













	,			4,			
	Pro 3000	IntelliTone™ Pro	Micro- Mapper	TS100	MS2-100 MS2-100-IE	MS-POE MS-POE-IE	LIQ-100 LIQ-100-IE
Switch Port Testing							
Switch presence		√			√	√	√
Identify switch name, port ID and VLAN							√
Identify Ethernet Speed to 10 Gb/s						√	√
Identify PoE Capability						√	√
Cable Verification							
Digitaltoning		√			√	√	√
Analog toning	√	√	√	√	√	√	√
Cable wire map		√	√		Graphical	Graphical	Graphical
Cable length				√	√	√	√
Qualify cabling speed (10/100/1000/10G)							√
Cable Troubleshooting							
Identify open/short	√	√	√	√	√	√	√
Distance to open/short				√	√	√	√
Identify crosstalk fault							√
Identify impedance fault							√



LinkIQ™ Industrial Ethernet Cable + Network Tester

- Cable performance testing up to 10GBASE-T plus troubleshooting (distance to fault, wire map, toning)
- Test and troubleshoot EtherNet/IP, PROFINET, EtherCAT cabling with M12X, M12D, and M8D adapters (IE versions)
- Network features include IPv4 and v6 ping, nearest switch diagnostics (IP address, name, port / VLAN number, and advertised data rates)
- Ethernet Alliance-certified PoE Verification detects the PoE class (1-8) and power, and performs a load test of available PoE from the connected switch
- Manage results and print reports from LinkWare™ PC

Cable testing you trust. Network testing you need.



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FEATURED COPPER CABLE TEST SOLUTIONS



Pro3000™ Analog **Tone and Probe**

- Tone and trace on non-active networks
- Identify exact pair with SmartTone™ technology and five distinct tones
- Loud speaker on probe easy to hear through drywall, wood, and other material
- Clear Innovative filter technology blocks interference ("buzz") that makes tracing difficult ("F" models only)
- Clips allow easy access to individual pairs and RJ11 easily connects to telephone jacks—no need for adapters





TS™100 Cable **Fault Finder**

- Numeric distance display
- Identify pairs with SmartTone™ generation technology
- Identify and locate distance to opens and shorts
- Works on any two or more conductor cable up to 3000 feet (915 metres)





IntelliTone™ Pro 200 **LAN Tone and Probe**

- Digital toning eliminates noise and false signals
- SmartTone™ analog toning isolates individual wire pairs
- Locates cables safely and effectively on active networks
- Visible end-to-end continuity test
- Built in wire mapper
- Works on twisted pair, audio, and video cabling





MicroMapper™

- Simple verification of wiremaps and identification of faults with LEDs
- Tests twisted pair cables for open circuits, shorts, crossed pairs, reversed pairs and split pairs
- Remote identifier enables one-person testing
- Built-in tone generator for tracing installed cables hidden in walls, floors and ceilings. Works with Pro3000™ Tone and Probe (sold separately)















TS™54 TDR	TS™52 PRO	TS™22A	TS™22	TS™25D	TS™30	TS™19
√						
√						
√	V			LCD only		
√	√			√		
√	√			√		
√	√			√		
√	√			√		
√	√			√		
√	√	√	√	√	√	
√	√	√				
√	√	√	V	√		
√	√					
√	V	V	V		V	
√	√	√	√	√	√	√
√	√	√	√	√		
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4-, 6-, and 8-Wire Modular Adapters

• Easily complete testing and obtain circuit access on working lines without disrupting service



• Test line status with the 4-wire modular adapter



Model	Description
10113000	4 wire
10210100	4-wire in-line
10210101	4-wire in-line with K-Plug
10220100	6-wire in-line
10220101	6-wire in-line with K-Plug
10230100	8-wire in-line
10230101	8-wire in-line with K-Plug



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TERMINATION TOOLS AND ADAPTERS

Ergonomic design, high-quality materials and Fluke Networks quality for separating, stripping and cutting wire. Perfect tools for your every job.













	Modular Crimper	Need-L-Lock™ Crimping Pliers	D- Snips™	Cable Strippers	Probe Pic	Can Wrenches
SKU	11212530	11294000	44300000	44210015	44600000	44007000



D914™ Series Impact Tools

- Hook, spudger and blade storage tools are built into the handle
- Select low impact for 24/26 gauge wire or high impact for 22-gauge wire
- Optional Phillips-head or flat screwdriver blade
- Supports a variety of torque tool bits and sockets
- Easy blade insertion, locks in place
- D914S features soft touch rubber handle and ergonomic design



Search for: 10061501 D914S impact tool with EverSharp 110, EverSharp 66 blade and free blade



JackRapid™ Punchdown Tool

- Terminate jacks eight times faster than traditional impact tools. The patented design seats and terminates all wires simultaneously. Built-in blade cuts off the excess wire eliminating the need for a secondary trim step
- High-quality, consistent terminations
- Ergonomic design reduces hand fatigue
- Convenient, built-in stripper
- Multiple versions support several jack manufacturers



Pro-Tool™ Kits

- Ergonomically designed Dur-a-Grip™ pouch for convenient tool storage on
- D914[™] and D814[™] industry standard punchdown tools make for solid terminations
- Easy-to-use cable stripper quickly rings and slits many types of cable
- Probe Pic checks for loose or damaged connections
- Cut and strip wire with Electricians' D-Snips™
- Three kit combinations available



Punchdown Blades

Model	Description
10176500	EverSharp 110 blade
10178600	EverSharp 110/66 cut blade
10056500	EverSharp 66 blade
10565000	Krone blade
10565110	Krone/110 cut blade
10176000	110 blade
10436001	Centerpunch blade
10465001	3M System D blade
10645001	Wood screw starter punch
10665000	BIX blade
10056000	66 blade
10057000	630 blade

JackRapid™

Model	Description
JR-PAN-2	For Panduit NK6X88M, NK688M, NKP5E88M
JR-ADC-2	For ADC C6a CopperTen™ UTP RJ45 jack and C6 TrueNet™ KM8 UTP RJ45
JR-ORT-2	For Ortronics™ TJ5E00, TJ600, TJ610
JR-SYS-2	For Systimax™ MGS400, MGS600, MFP420, MFP520 and Commscope™ UNJ10G
JR-LEV-2	For Leviton™ 61110, 5G110, 6110G
JR-SYS-UNI-1	For Systimax MPS100E, C5, M1BH and Commscope UNJ600/500/300
JR-LEV-1	For Leviton 41106, 41108, 5G108



Fluke Networks www.flukenetworks.com

The ability to measure temperatures accurately and quickly throughout the manufacturing process has enabled innovators and producers to bring their projects to life. This has also helped them successfully deliver scalable results and improve the process.

Fluke thermal profiling and non-contact monitoring solutions optimize the production process for just about every sector. From the manufacturing of consumer goods to large scale construction initiatives and mining, Fluke tools help to ensure precision, safety, and consistency.



Raytek® Raynger® 3i Plus

Handheld infrared thermometer for hot environments

Designed for use in high-temperature industrial applications and can measure in the range of 400–3000°C (752-5432°F). It is optimal for use in industries such as iron and steel, metal refining, foundry and processing operations, ceramics, semiconductors, chemical and petrochemical furnaces, as well as in heat treatment and power plants.



SV600 Fixed Acoustic Imager

Fixed acoustic imager for leak detection

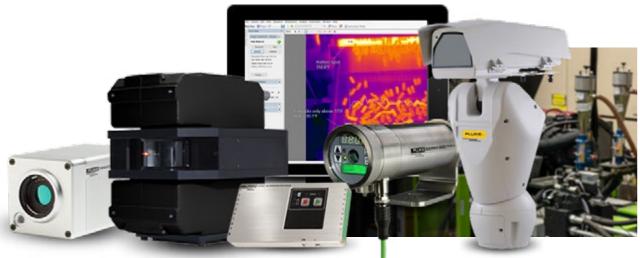
Visualize the unheard and unseen with the SV600 Fixed Acoustic Imager. It can continuously detect, locate and visualize air and gas leaks or changes in sound signatures before they become costly problems. As a fixed and automated solution, the SV600 integrates with product leak testing process and eliminates the need for lengthy fault-finding procedures such as soapy water tests.



ThermoView® TV40 Thermal Imager

High-performance fixed thermal imager

Industrial fixed thermal imaging system that allows you to expand your understanding of how critical assets function by providing continuous infrared and visual feeds to visualize temperature data. The TV40 offers a fully integrated temperature control, monitoring, and data archiving solution.



Endurance[®] Series

Innovative High Performance Infrared Pyrometers

Designed to handle wider temperature ranges with superior optical resolution. Profinet, Ethernet, EtherNet/ IP, RS-485 and analog output is available to meet process requirements. Endurance® series sensors are rugged, small and easy to install.



ThermoView® TV30

Temperature monitoring in severe environments without the need for computer equipment

The ThermoView TV30 directly integrates into your process without the need for a PC or software. It is built to work in the harshest environments and helps you avoid downtime and costly repairs. The reduced installation cost and space savings makes it an ideal thermal imaging solution.



Raytek® Compact Mi3

Big sensor performance in a small sensor package

Assemble your own customized system from a variety of temperature ranges and network communication interfaces. The self-diagnostic feature reduces maintenance by helping prevent cable breakage and internal overheating. Available with intrinsically safe ATEX / IECEx certification for explosive environments.



CS400 Kiln Shell Imaging System

Continuous and integrated kiln monitoring solution

Picture every brick in your kiln in real-time with continuous infrared monitoring that can help prevent costly shutdowns and extend production runs. Specifically designed for harsh kiln environments, the CS400 Kiln Shell Imaging System is a fully integrated solution that continuously monitors kilns for hot spots – helping users detect issues before they affect cost and cause unscheduled downtime.



Thermalert 4.0 Series Pyrometers

Smart infrared sensors to take temperature data and process control to the next level

Designed for harsh environments, Thermalert 4.0 Series Pyrometers provide accurate, real-time temperature measurements for process control applications spanning metals, plastics, glass, oil and gas, food and more. This robust solution comes in a compact, integrated package that is easy to install and operate, so you can take your process control to the next level.





The Datapaq® Overview

Datapaq is the preferred supplier of in-process temperature profiling solutions to the global industrial market. Thousands of satisfied customers choose and continue to rely on Datapaq to maximize the potential of their industrial heating processes.



What is the Datapaq Advantage and what does it mean for our customers?

- Temperature profiling is what we do. We have been the worldwide leader in temperature profiling for over 25 years.
- Pioneering many industrial firsts, market innovations, and new technologies, Datapag is the leading name in temperature profiling.
- We are renowned for our quality, reliability, and solutions that address your specific application needs.
- Our proven technology is designed and manufactured to meet the rigorous demands of regular use in hostile thermal processes, with data loggers designed for industry.
- We listen to our customers and provide solution-oriented product development based on decades of market research and learning about their needs. Addressing all aspects of the system, from the logger and barrier design to the critical key software analysis and reporting requirements, we have what you need for profiling your process.
- Datapaq is a global provider of profiling solutions with product language support in over 10 languages.
- Three international service centres provide technical service and calibration support in accordance with ISO9001 quality standards, with equipment that is fully certified and traceable back to DKD & NIST international standards.
- Our staff provides experienced customer support you can depend on, from the sales order desk to the service technicians and
- All Datapaq systems are designed and manufactured to meet ISO9001 global quality standards you can trust.

Profiling Verticals and Segments

Datapaq is the preferred supplier of in-process temperature profiling solutions to the global industrial market. Thousands of satisfied customers choose and continue to rely on Datapaq to maximize the potential of their industrial heating processes.



Industrial Coatings





High Temperature Heat Treatment



Furnace Tracker



Electronics Industry





Food Processing



Food Tracker



Ceramics & Kiln Firing



Kiln Tracker



Solar Photovoltaic Manufacturing



Solar Tracker



Fluke Process Instruments

Test tools

1-9		715
	112	717
120B Series		718
1503		719719Pro
1504		721
1507		721Ex
1524		724
1535		725
1537		726
154		729
1550C		729 Pro
1551A Ex	126	730G
1552A Ex	126	750 Series
1555	89	750P ·····
1577	88	750PEx
1586A		771
1587 FC	88	772
1620-2 Series		773
1620A		77IV
1630-2 FC		787B ·····
1660 Series		789
1670 Series		802EN
170 Series		805 FC
1734		810
1734		831
1736		83V
1738		87V
1742		87V MAX
1746		8808A
1770 Series		88V
190 Series III		902 FC9040
1AC II		91008
1LAC II		91028
27 II		9103
2700G Series ·····		9132
28 II		9133
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