Fluke T6 Electrical Testers with FieldSense technology

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 AWG 4/0 (120 mm²), carrying as much as 200 A. It will change your job. Safer. Faster. Easier.

Product Highlights

- FieldSense technology for ac voltage, current and frequency measurement without making electrical contact to live voltage[+]

- Simultaneous voltage and current display (T6-1000)— shows all power supply measurements at a glance for efficient troubleshooting

- 1 to 1000 V ac or dc (T6-1000); 600 V ac or dc (T6-600)

- 0.1 to 200 A ac

- Resistance 1 Ω to 100 kΩ (T6-1000), 1 Ω to 2 kΩ (T6-600)

- Frequency measurement 45 Hz to 66 Hz (T6-1000)

- Works with wires up to AWG 4/0 (120 mm²) with a 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

- Standard two-year warranty; extendable to four years through product registration within 45 days of purchase*

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

  * Register product online within 45 days of purchase to extend warranty to four years. See http://a.fluke.com/registration for details.

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Specifications

Measurement Specifications

Function	Requires test leads	T6-600 Range	T6-1000 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)
Resistance	Yes	2000 Ω	2000 Ω	1 Ω	±(1 % + 2 counts)
	Yes		20.00 kΩ	0.01 kΩ	±(1 % + 2 counts)
	Yes		100.0 kΩ	0.1 kΩ	±(1 % + 2 counts)
Safety (measurement category)		600 V CAT III	1000 V CAT III 600 V CAT IV		

Accuracy[1]: ± ([% 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.

Accuracy[3]: FieldSense specified from 16V to 100% of range.

General Specifications

Calibration	1-year calibration cycle
Dimensions	61.1 mm x 259.3 mm x 43.8 mm
Weight	0.35 kg (0.78 lb)
Fork opening	17.8 mm

Temperature
    Operating:
    Storage:
	–10 °C to +50 °C (14 °F to 122 °F)
	–30 °C to +60 °C (–22 °F to +140 °F)

Altitude
    Operating:
    Storage:
	2,000 m (6,562 feet)
	10,000 m (32,808 feet)

Relative Humidity	0 % to 90 %, 5 °C to 30 °C (41 °F to 86 °F) 0 % to 75 %, 30°C to 40 °C (86 °F to 104 °F) 0 % to 45 %, 40°C to 50 °C (104 °F to 122 °F)
Battery Type and Life	2 x AA (IEC LR6); 360 hours continuous, typical; 200 hours using FieldSense
Temperature coefficient	0.1 x (specified accuracy) / °C for <18°C or >28 °C (< 64.4 °F or > 82.4 °F)
Safety	IEC/EN 61010-1, IEC/EN 61010-2-033: Pollution Degree 2
Electromagnetic Environment	IEC/EN 61326-1: Portable

Fluke. *Keeping your world up and running.*®

Ordering information

Fluke T6-600 Electrical Tester

Fluke T6-1000 Electrical Tester

Included with product
Attached test leads with removable 4 mm probe caps, user documentation

Optional accessories
H-T6 Belt Holster
TPAK Magnetic Hanger
PRV240FS Proving Unit
TP1 Probe Set, Flat-Blade (US/UK flat tip)
TP38 Probe set, round (EU)
AC285 SureGrip Alligator Clips
AC220 SureGrip Alligator Clips
Service Information Sheet, PN 686953

* Two-year additional warranty offer may be discontinued without notice