

TECHNICAL DATA

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.



Specifications

| Measurement Specifications | | | | | |
|-------------------------------|---------------------|---------------|--------------------------------|------------|-------------------------------------------------------|
| Function | Requires test leads | T6-600 | T6-1000 | Resolution | Accuracy ⁽¹⁾ |
| | | Range | Range | | |
| 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 |



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

Fluke. Keeping your world up and running.®

Fluke Corporation

PO Box 9090, Everett, WA 98206 U.S.A.

Fluke Europe B.V.

PO Box 1186, 5602 BD Eindhoven, The Netherlands

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For more information call:

In the U.S.A. (800) 443-5853 or

Fax (425) 446-5116

In Europe/M-East/Africa +31 (0)40 267 5100

or Fax +31 (0)40 267 5222

In Canada (800)-36-FLUKE or

Fax (905) 890-6866

From other countries +1 (425) 446-5500 or

Fax +1 (425) 446-5116

Web access: <http://www.fluke.com>

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