

TECHNICAL DATA

# Fluke T6-1000 Electrical Tester



## Key features

- Measure voltage to 1000 V AC without test leads
- Simultaneously measure voltage and current
- 17.8 mm open fork is widest in the industry
- Measure up to 200 A on 4/0 wires (120 mm<sup>2</sup>)

## Product overview: Fluke T6-1000 Electrical Tester

### Measure voltage without test leads

The Fluke T6-1000 Electrical Tester with FieldSense™ technology lets you quickly, safely take True rms voltage and current measurements without test leads.

Unlike other fork testers that merely detect voltage, the T6-1000 makes actual measurements, without contacting a live, metallic conductor. Just slide the 17.8 mm open fork, the widest in the industry, over a conductor and read simultaneous voltage and current values. Or simultaneous frequency and current values. The open fork works with wires up to AWG 4/0 (120 mm<sup>2</sup>). Or, you can use the attached test leads to measure voltage DC to 1000 V.

- True rms voltage and current to 200 A AC, 1000 V AC
- Resistance 1 Ω to 100 kΩ

## Work on any jobsite

Make use of the HOLD button to temporarily freeze the reading on the screen so you can keep working with the same measurement up. Plus, the display features large, easy-to-read numbers and a backlight for darker work environments or inside cabinets. The T6-1000 works with the Fluke TPACK ToolPak™ Magnetic Meter Hanger to make it even more convenient.

## How FieldSense™ technology works

FieldSense™ technology is different than other open fork testers work by interpreting a magnetic field to show AC current. FieldSense™ detects an electrical field that interacts with a T6 reference signal, showing a voltage value on the tester's display.

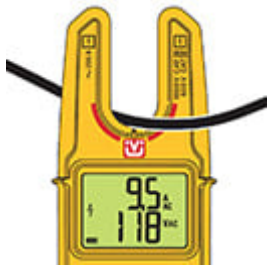
### FieldSense tools

Learn how to use the T6

[Download the Quick Reference Guide](#)

[Download the T6 "How-To" Demonstration Guide](#)

[Read the FieldSense Proving Unit Demonstration Guide](#)



## T6 Electrical Tester Helps Team at Cutting Edge Cancer Research Center

### T6 Awards



## Specifications: Fluke T6-1000 Electrical Tester

Measurement Specifications

Function	Requires test leads	Range	Resolution	Accuracy <sup>[1]</sup>
FieldSense ac voltage true-rms	No	1000 V	1 V	$\pm (3 \% + 3 \text{ counts})$ 45 Hz - 66 Hz <sup>[2][3]</sup>
FieldSense ac current true-rms	No	200.0 A	0.1 A	$\pm (3 \% + 3 \text{ counts})$ 45 Hz - 66 Hz
FieldSense frequency (Hz)	No	45 Hz – 66 Hz	1 Hz	$\pm (1 \% + 2 \text{ counts})$ <sup>[3]</sup>
Volts ac true-rms	Yes	1000 V	1 V	$\pm (1.5 \% + 2 \text{ counts})$ 45 Hz - 66 Hz
Volts dc	Yes	1000 V	1 V	$\pm (1 \% + 2 \text{ counts})$
Resistance	Yes	2000 $\Omega$	1 $\Omega$	$\pm (1 \% + 2 \text{ counts})$
	Yes	20.00 k $\Omega$	0.01 k $\Omega$	
	Yes	100.0 k $\Omega$	0.1 k $\Omega$	
Safety		1000 V CAT III 600 V CAT IV		

Accuracy<sup>[1]</sup>:  $\pm ([ \% \text{ of reading}] + [\text{number of least significant digits}])$ . 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 measurements are ac-coupled, RMS responding.  
 Accuracy<sup>[2]</sup>: Add 3 % without an external ground connection. External ground connection required for user wearing insulated gloves, standing on an insulated ladder, or otherwise insulated from earth ground.  
 Accuracy<sup>[3]</sup>: FieldSense is specified from 16 V to 100 % of range.

### General Specifications

Calibration	1-year calibration cycle	
Dimensions	61.1 x 259.3 x 43.8 mm	
Jaw opening	17.8 mm	
Weight	0.35 kg (0.78 lb)	
Temperature	<b>Operating</b>	-10 °C to +50 °C (14 °F to 122 °F)
	<b>Storage</b>	-30 °C to +60 °C (-22 °F to +140 °F)
Altitude	<b>Operating</b>	2,000 m (6,562 feet)
	<b>Storage</b>	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	
	0.1 x (specified accuracy) / °C for <18°C or >28 °C	
Safety	IEC/EN 61010-1: Pollution Degree 2	
Electromagnetic Environment	IEC/EN 61326-1: Portable	

## Ordering information



### T6-1000 Electrical Tester

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Includes:

- Attached test leads with removable 4 mm probe caps
  - User documentation
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11/2022

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