

TECHNICAL DATA

# Fluke T6-600 Electrical Tester



## Key features

- Measure AC voltage, current, frequency without touching a live wire
- Troubleshoot with all power supply measurements at-a-glance
- See AC voltage and current values without test leads

## Product overview: Fluke T6-600 Electrical Tester

Measure voltage ... without test leads

Working in cramped electrical boxes and trying to find a safe metallic contact points is often challenging. The Fluke T6-600 Electrical Tester with FieldSense™ technology, lets you quickly and safely take measurements by sliding the open fork over a conductor, without the need for test leads. The T6-600 works with wires up to AWG 4/0 (120 mm<sup>2</sup>) with a 17.8 mm jaw opening

How FieldSense™ technology works

FieldSense™ technology is a breakthrough in how voltage is measured. Other open fork testers detect a magnetic field to show AC current. FieldSense™ technology detects an electrical field, which interacts with a reference signal created by the T6 tester, which shows the measurement value on the tester's display.

Tips on using FieldSense technology

- Do not hold or touch wire you are testing during a measurement.

- Use the black probe to make the ground connection if you are wearing gloves, insulated footwear or standing on an insulated ladder

### Measurement versatility

The electrical tester offers a variety of measurement options giving you an all-in-one troubleshooting tool. Measure true rms voltage and current from 0 to 200 A AC or 1 to 600 V AC or DC. You can also gather resistance measurement from 1  $\Omega$  to 2000  $\Omega$ . With the easy-to-read backlit display, you can keep see your work in dark environments and keep your most recent measurement on the screen with the HOLD button for easy viewing. The T6-600 also accepts optional Fluke TPAK Magnetic Meter Hanger for convenient operation.

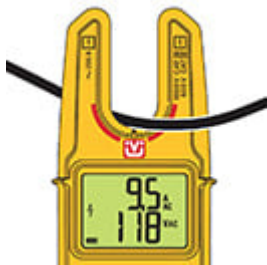
### FieldSense tools

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 T6-600 Electrical Tester

Measurement Specifications

Function	Requires test leads	Range	Resolution	Accuracy <sup>[1]</sup>
FieldSense ac voltage true-rms	No	600 V	1 V	$\pm(3\% + 3 \text{ counts})$ 45 Hz - 66 Hz <sup>[2]</sup> <sup>[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		1 Hz	$\pm(1\% + 2 \text{ counts})$ <sup>[3]</sup>
Volts ac true-rms	Yes	600 V	1 V	$\pm(1.5\% + 2 \text{ counts})$ 45 Hz - 66 Hz
Volts dc	Yes	600 V	1 V	$\pm(1\% + 2 \text{ counts})$
Resistance	Yes	2000 $\Omega$	1 $\Omega$	$\pm(1\% + 2 \text{ counts})$

<b>Safety</b>	600 V CAT III	
<p>Accuracy<sup>[1]</sup>: <math>\pm</math> ( [ % 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 measurements are ac-coupled, RMS responding.</p> <p>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.</p> <p>Accuracy<sup>[3]</sup>: FieldSense is specified from 16 V to 100 % of range.</p>		
General Specifications		
<b>Calibration</b>	1-year calibration cycle	
<b>Dimensions</b>	61.1 x 259.3 x 43.8 mm	
<b>Jaw opening</b>	17.8 mm	
<b>Weight</b>	0.35 kg (0.78 lb)	
<b>Temperature</b>	<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)
<b>Altitude</b>	<b>Operating</b>	2,000 m (6,562 feet)
	<b>Storage</b>	10,000 m (32,808 feet)
<b>Relative Humidity</b>	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)	
<b>Battery Type and Life</b>	2 x AA (IEC LR6); 360 hours continuous, typical; 200 hours using FieldSense	
<b>Temperature coefficient</b>	0.1 x (specified accuracy) / °C for <18°C or >28 °C	
	< 64.4 °F or > 82.4 °F)	
<b>Safety</b>	IEC/EN 61010-1: Pollution Degree 2	
<b>Electromagnetic Environment</b>	IEC/EN 61326-1: Portable	

## Ordering information



### **T6-600 Electrical Tester**

Fluke T6-600 Electrical Tester

Includes:

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

### **Optional accessories**

### **Description**

**Fluke TPAK ToolPak™ Magnetic Meter Hanger** Powerful magnetic strap for safe, hands free measurements.

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

**Fluke Corporation**

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12/2022

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