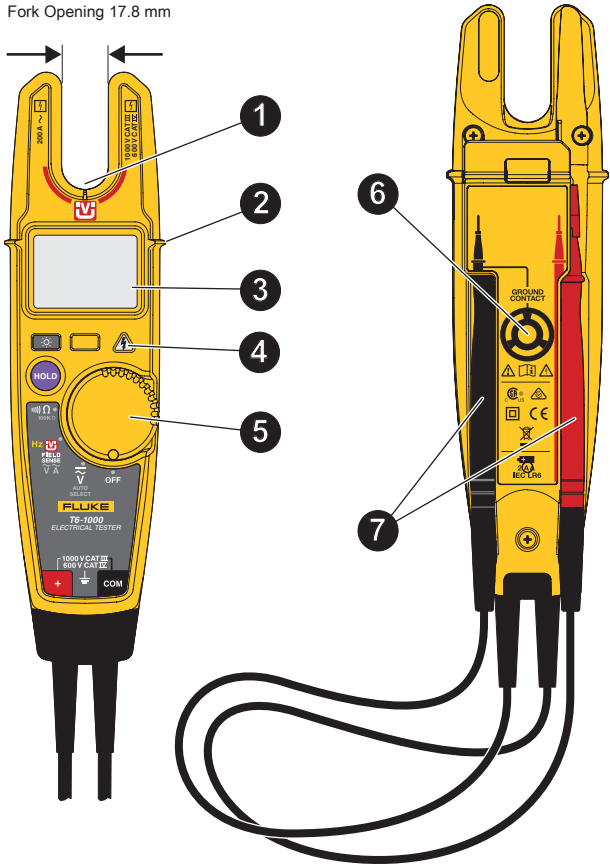




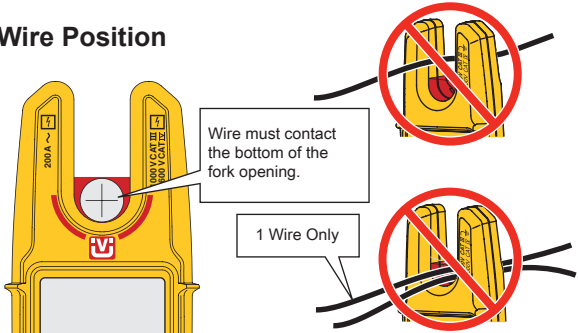
T6-600/T6-1000  
Electrical Tester  
with FieldSense Technology

See Safety Information.  
Go to [www.fluke.com](http://www.fluke.com) to register your product and find more information, or download this Quick Reference Guide in other languages.

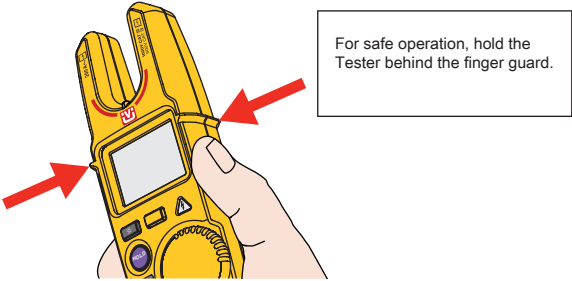


Overview

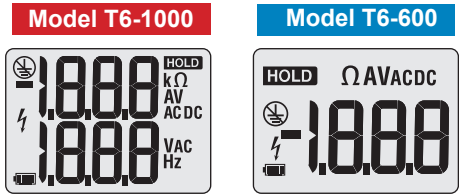
1 Wire Position



2 Finger Guard



3 Display

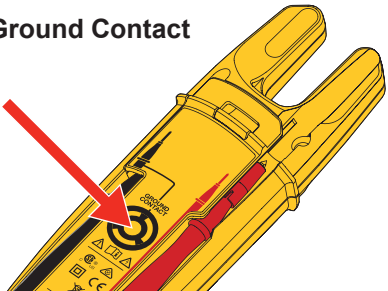


4 Hazardous Voltage ≥30 V

5 Function Selection/On/Off



6 FieldSense Ground Contact






7 Test Probes/Storage Dock

Symbols

	WARNING. RISK OF DANGER.		Test with fork and FieldSense ground contact.
	Consult user documentation.		Test with fork and ground probe.
	Hazardous voltage ≥30 V.		Test with probes.
	Battery full charge.		FieldSense Measurement: Fluke voltage/current sensing technique.
	Battery low. Replace.		Good earth ground connection.
	Back light		No earth ground connection.

Specifications

		Model T6-1000	Model T6-600		
Function	Requires Test Leads	Range	Range	Resolution	Accuracy <sup>[1]</sup>
 FieldSense Voltage ac true-rms	No	1000 V	600 V	1 V	±(3 % + 3 counts) 45 Hz to 66 Hz <sup>[2] [3]</sup>
 FieldSense Current ac true-rms	No	200.0 A	200.0 A	0.1 A	±(3 % + 3 counts) 45 Hz to 66 Hz
 FieldSense frequency (Hz)	No	45 Hz to 66 Hz		1 Hz	±(1 % + 2 counts) <sup>[3]</sup>
Voltage ac true-rms	Yes	1000 V	600 V	1 V	±(1.5 % + 2 counts) 45 Hz to 66 Hz
Voltage dc	Yes	1000 V	600 V	1 V	±(1 % + 2 counts)
Resistance	Yes	2000 Ω	2000 Ω	1 Ω	±(1 % + 2 counts)
	Yes	20.00 kΩ		0.01 kΩ	
	Yes	100.0 kΩ		0.1 kΩ	
<div>[1] Accuracy: ±( [ % 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 accoupled, RMS responding.</div> <div>[2] Add 3 % typical 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.</div> <div>[3] FieldSense is specified from 16 V to 100 % of range.</div>					

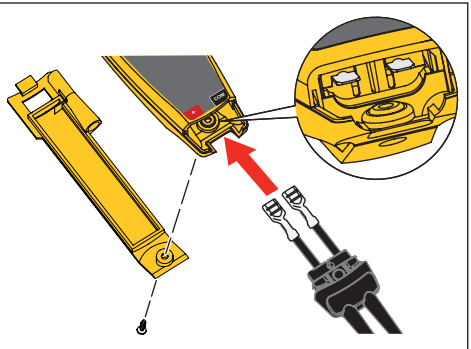
Fork opening	17.8 mm
Temperature	
Operating	-10 °C to +50 °C (+14 °F to +122 °F)
Storage	-30 °C to +60 °C (-22 °F to +140 °F)
Altitude	
Operating	2000 m
Storage	10 000 m
Relative Humidity	0 % to 90 %, 5 °C to 30 °C (41 °F to 86 °F) 0 % to 75 %, 30 °C to 40 °C (86 °F to 104 °F) 0 % to 45 %, 40 °C to 50 °C (104 °F to 122 °F)
Battery Type and Life	2x AA (IEC LR6) 360 hr continuous, typical is 200 hr using the FieldSense function
Temperature coefficient	0.1 x (specified accuracy) / °C for <18 °C or >28 °C (<64.4 °F or >82.4 °F)

Replacement Parts

Test Lead Assembly (T5-RLS) Replace only with Fluke double-insulated leads	PN 4462973
TP1 Single Probe, Flat-Tip, Red	PN 648128
TP1 Single Probe, Flat-Tip, Black	PN 648102
TP38 Single Probe, Round-Tip, Red	PN 1276841
TP38 Single Probe, Round-Tip, Black	PN 1276852
Battery Door	PN 4944370
Battery Door Screw	PN 1618578

Use only specified replacement parts

Lead Replacement



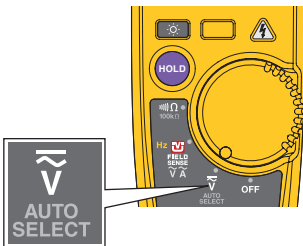
Accessories

- HT6 Belt Holster
- TPAK Hanger
- PRV240FS Proving Unit
- AC285 SureGrip™ Alligator Clips
- AC220 SureGrip™ Alligator Clips
- C60 softcase



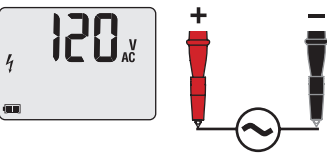
How to Make Measurements

**1**



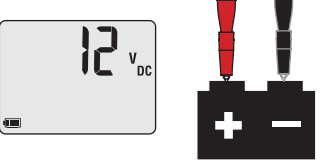
**2A**

**V̇ (AC)** 45 Hz - 66 Hz  
T6-600 max: 600 V rms CAT III  
T6-1000 max: 1000 V rms CAT III  
600 V rms CAT IV

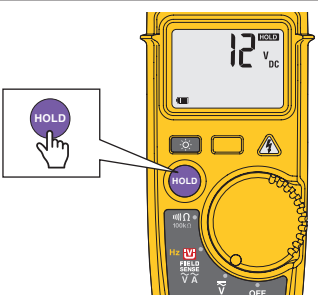


**2B**

**V̇ (DC)** 45 Hz - 66 Hz  
T6-600 max: 600 V CAT III  
T6-1000 max: 1000 V CAT III  
600 V CAT IV

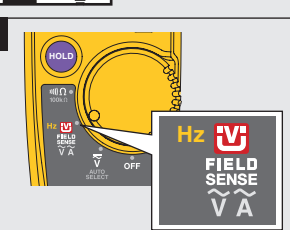


**HOLD**

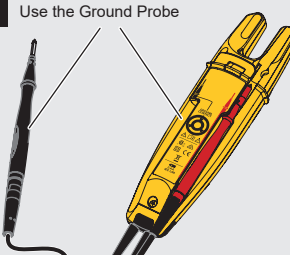


**Model T6-1000** **Ã / V̇ / Hz**

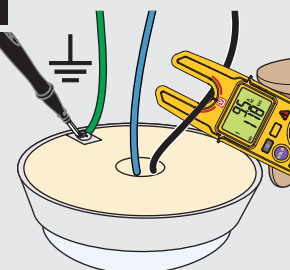
**1**



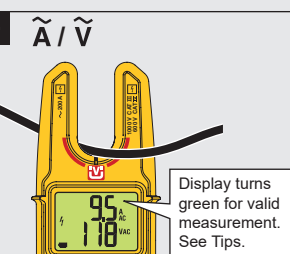
**2** Use the Ground Probe



**3**

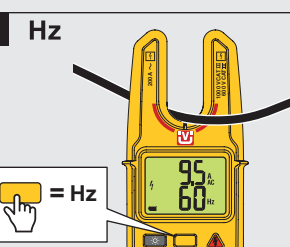


**4** **Ã / V̇**



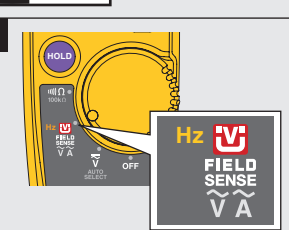
Display turns green for valid measurement. See Tips.

**5** **Hz**

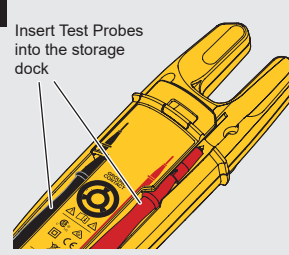


**Hz** = Hz

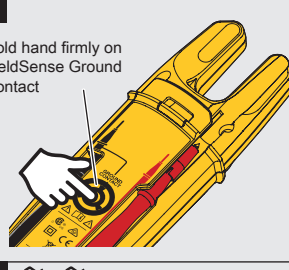
**1**



**2** Insert Test Probes into the storage dock

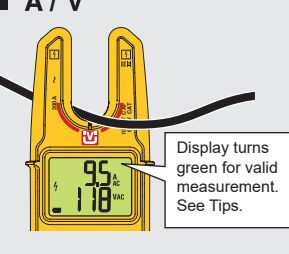


**3**



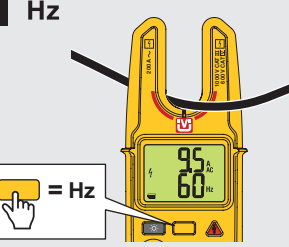
Hold hand firmly on FieldSense Ground Contact

**4** **Ã / V̇**



Display turns green for valid measurement. See Tips.

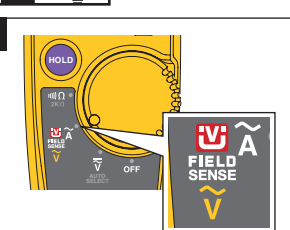
**5** **Hz**



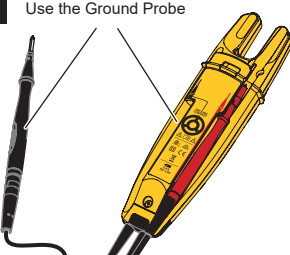
**Hz** = Hz

**Model T6-600** **Ã / V̇**

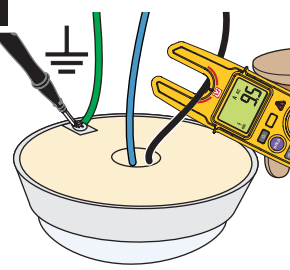
**1**



**2** Use the Ground Probe

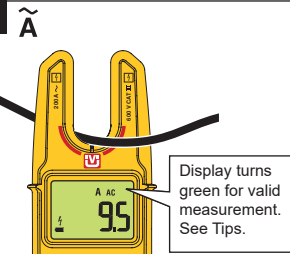


**3**



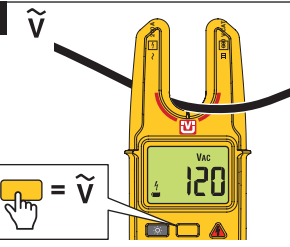
Hold hand firmly on FieldSense Ground Contact

**4** **Ã**



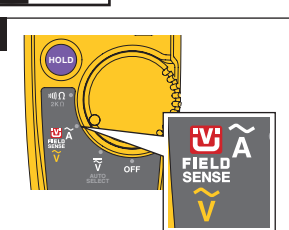
Display turns green for valid measurement. See Tips.

**5** **V̇**

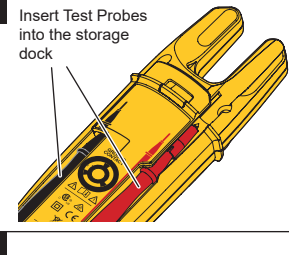


**V̇** = V̇

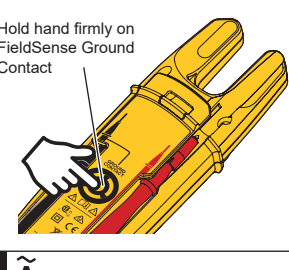
**1**



**2** Insert Test Probes into the storage dock

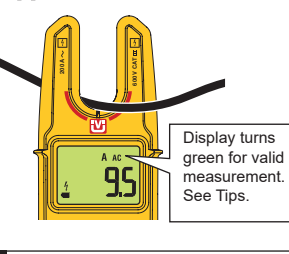


**3**



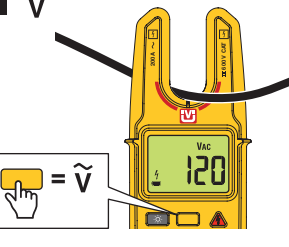
Hold hand firmly on FieldSense Ground Contact

**4** **Ã**



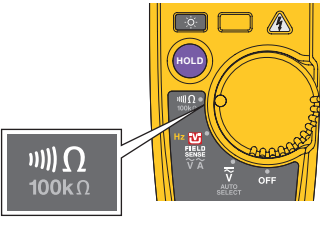
Display turns green for valid measurement. See Tips.

**5** **V̇**

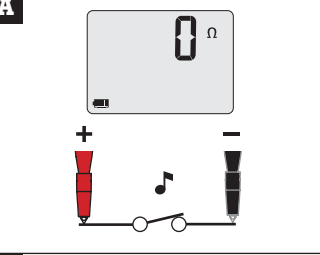


**V̇** = V̇

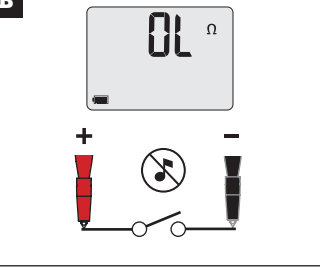
**1**



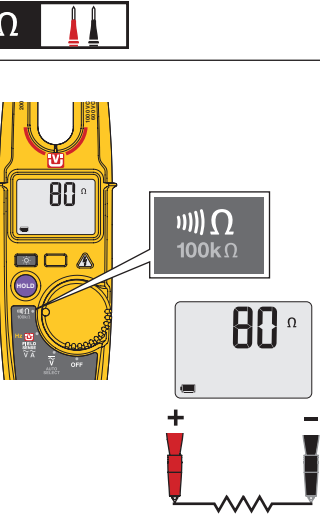
**2A**



**2B**



**Ω**




**Tips: FieldSense Technology**

Use the black probe to make the ground connection if:

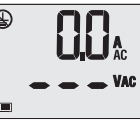
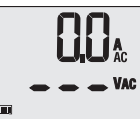
- wearing gloves or insulated footwear
- standing on an insulated ladder
- additional ground contact is required for the application

**⚠ Do not hold or touch wire under test during a measurement. This will modify the operator's voltage potential with respect to earth and give invalid measurements.**

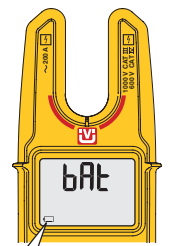
FieldSense measurement looks like this when properly grounded:



- Display color turns green
- Display shows a valid measurement >16 V rather than dashes or 0.0
- ⚡ shows for measurement ≥30 V

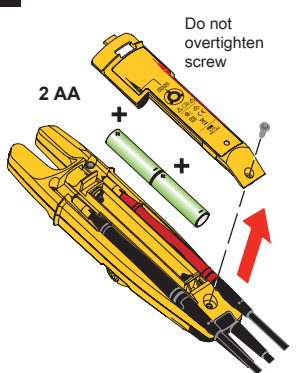
If you see:	Solution:
	<ul style="list-style-type: none"><li>⚡ show on the display</li><li>Display color is gray</li><li>VAC measurement does not show on display</li></ul> <ul style="list-style-type: none"><li>Make sure that your bare hand is firmly touching the FieldSense Ground Contact on the battery door.</li><li>Check that the black probe is properly stored in the dock.</li><li>Make sure the wire position in the fork opening is correct. See the Overview section about wire position.</li></ul>
	<ul style="list-style-type: none"><li>Display color is gray</li><li>VAC measurement does not show on display</li></ul> <ul style="list-style-type: none"><li>Measurement is &lt;16 V</li><li>Make sure the wire position in the fork opening is correct. See the Overview section about wire position.</li></ul>

**1**



Low Battery Indicator

**2**



2 AA

Do not overtighten screw