

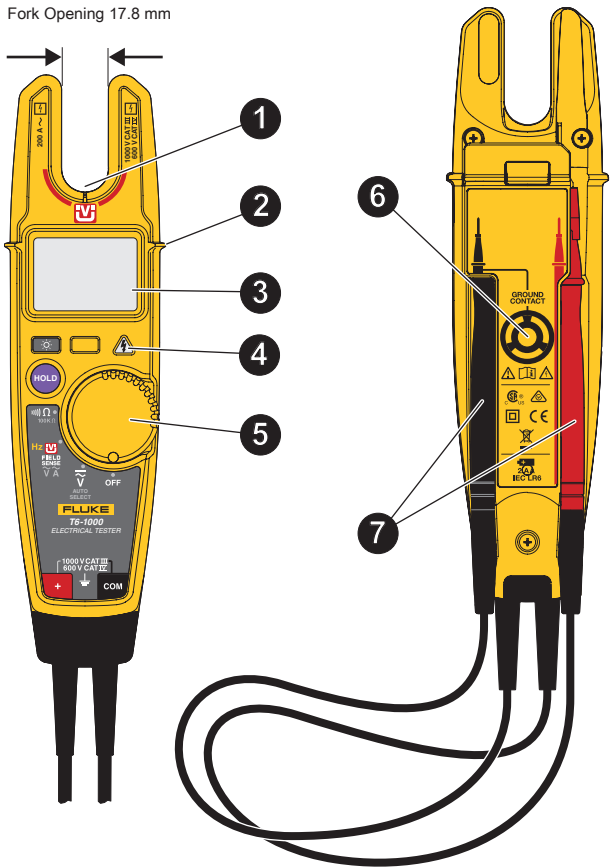
Quick Reference Guide

FLUKE®



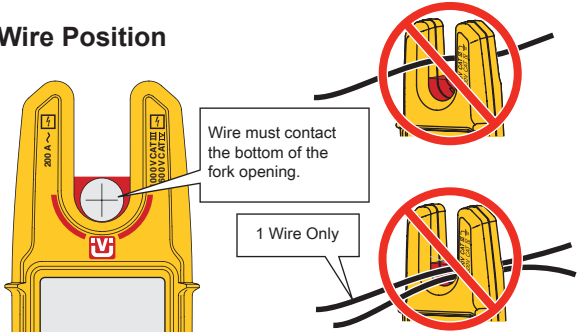
T6-600/T6-1000
Electrical Tester
with FieldSense Technology

See “Safety Information”.
Go to www.fluke.com to register your product and find more information, or
download this Quick Reference Guide in other languages.

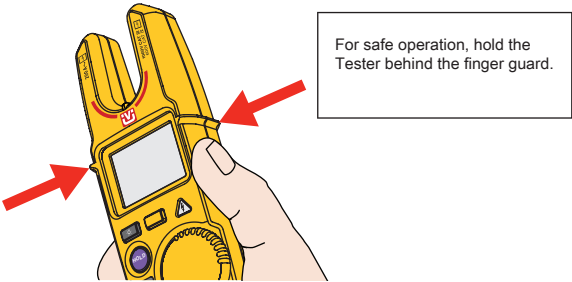


Overview

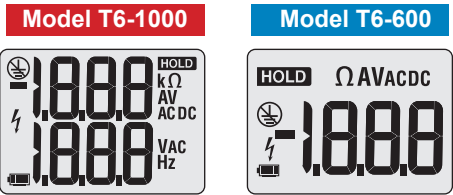
1 Wire Position



2 Finger Guard



3 Display

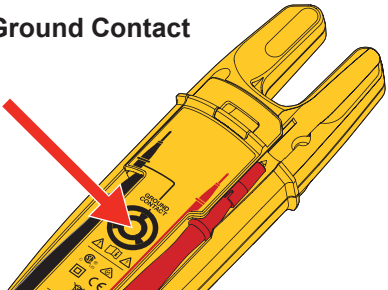


4 Hazardous Voltage ≥30 V

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

Function	Requires Test Leads	Model T6-1000	Model T6-600	Resolution	Accuracy ^[1]
		Range	Range		
FieldSense Voltage ac true-rms	No	1000 V	600 V	1 V	±(3 % + 3 counts) 45 Hz to 66 Hz ^{[2] [3]}
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) ^[3]
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	

- [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.
- [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.
- [3] FieldSense is specified from 16 V to 100 % of range.

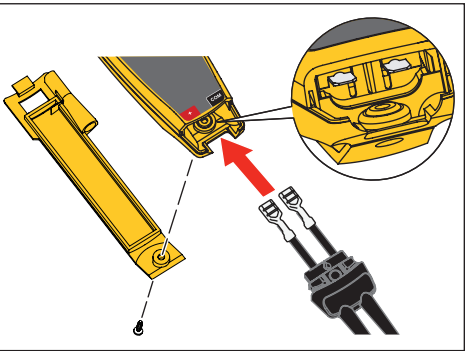
Fork opening	17.8 mm
Temperature	
Operating	-10 °C to +50 °C (+14 °F to +122 °F)
Storage	-30 °C to +60 °C (-22 °F to +140 °F)
Altitude	
Operating	2000 m
Storage	10 000 m
Relative Humidity	0 % to 90 %, 5 °C to 30 °C (41 °F to 86 °F) 0 % to 75 %, 30°C to 40 °C (86 °F to 104 °F) 0 % to 45 %, 40°C to 50 °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 Probe Set, Flat-Blade	PN 648128
Battery Door	PN 4944370
Battery Door Screw	PN 1618579

Use only specified replacement parts

Lead Replacement



Accessories

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

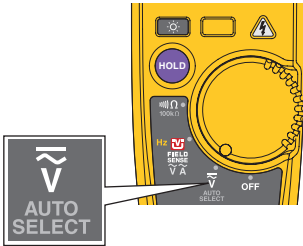
Contact Fluke

USA: 1-800-44-FLUKE (1-800-443-5853)
Canada: 1-800-36-FLUKE (1-800-363-5853)
Europe: +31 402-675-200
Japan: +81-3-6714-3114
Singapore: +65-6799-5566-5655
China: +86-400-921-08365
Anywhere in the world: +1-425-446-5500



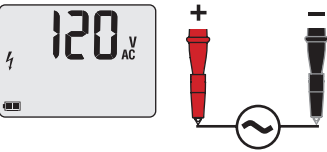
How to Make Measurements

1



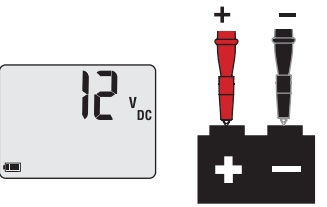
2A

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

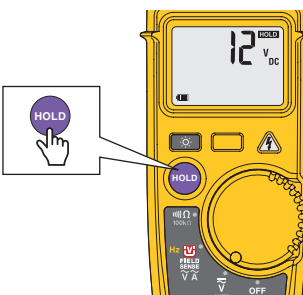


2B

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

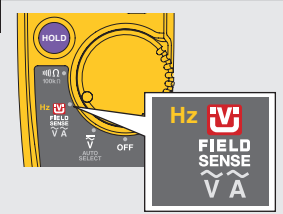


HOLD

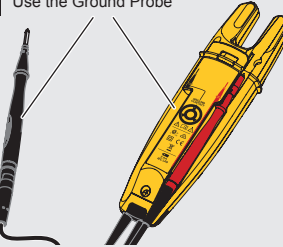


Model T6-1000

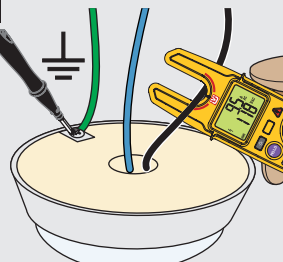
1



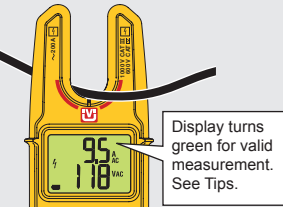
2 Use the Ground Probe



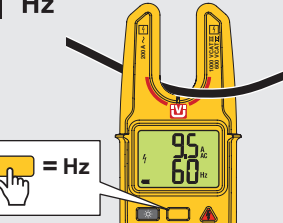
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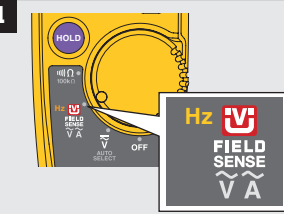
4 **Ã / Ṽ**



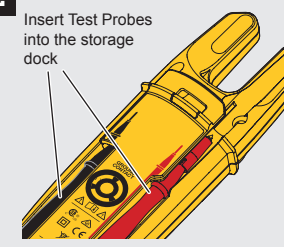
5 **Hz**



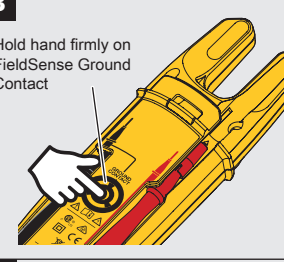
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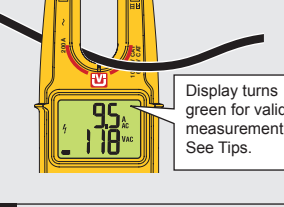
2 Insert Test Probes into the storage dock



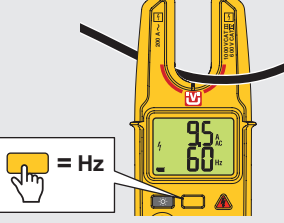
3 Hold hand firmly on FieldSense Ground Contact



4 **Ã / Ṽ**

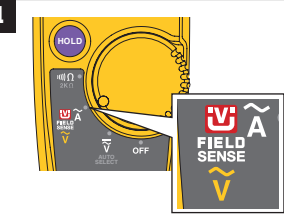


5 **Hz**

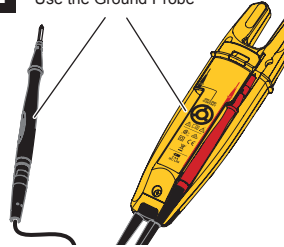


Model T6-600

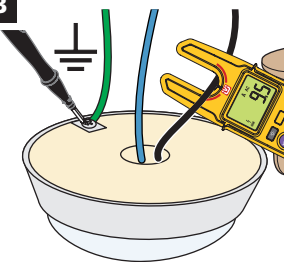
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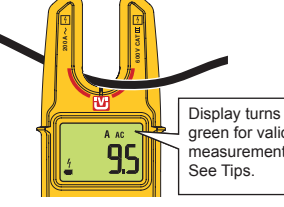
2 Use the Ground Probe



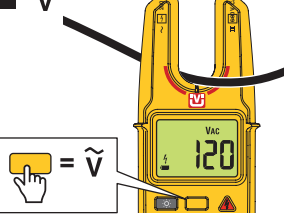
3




4 **Ã**



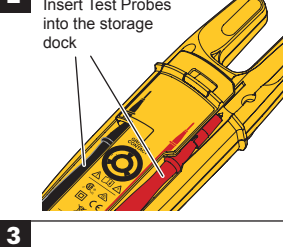
5 **Ṽ**



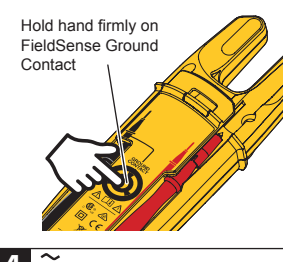
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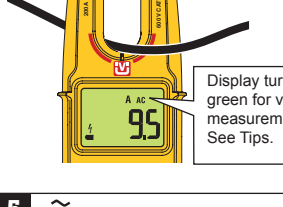
2 Insert Test Probes into the storage dock



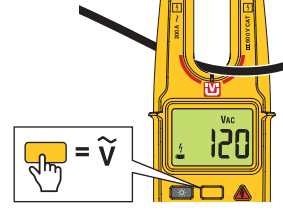
3 Hold hand firmly on FieldSense Ground Contact



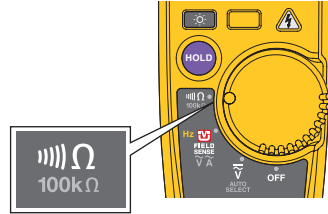
4 **Ã**



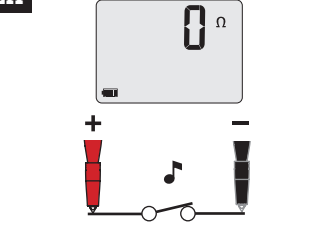
5 **Ṽ**



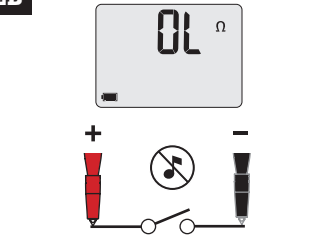
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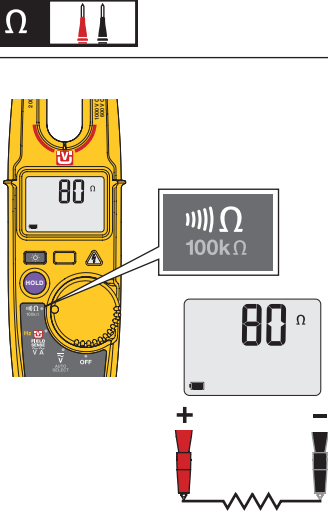
2A



2B



Ω



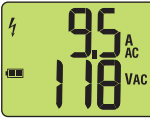
Tips: FieldSense Technology

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.

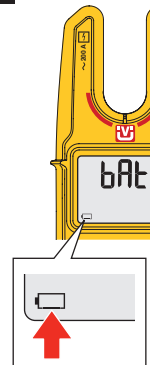
FieldSense measurement looks like this when properly grounded:



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

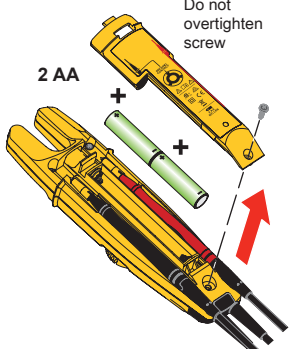
If you see:	Solution:
	<ul style="list-style-type: none">⚡ show on the displayDisplay color is grayVAC measurement does not show on display <ul style="list-style-type: none">Make sure that your bare hand is firmly touching the FieldSense Ground Contact on the battery door.Check that the black probe is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

1



Low Battery Indicator

2



Do not overtighten screw

2 AA