

Quick Reference Guide
Guía de referencia rápida
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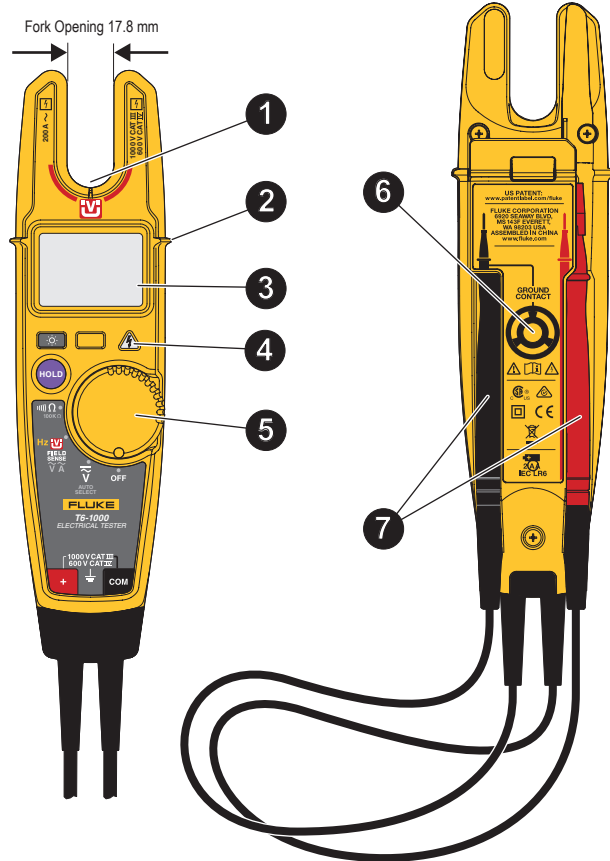
FLUKE

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

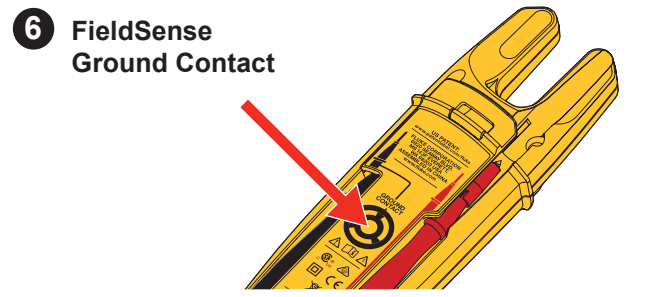
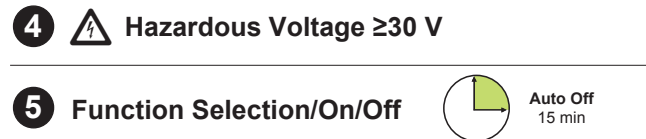
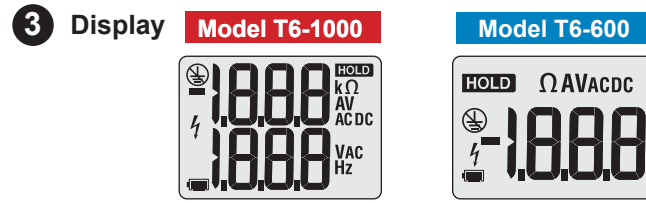
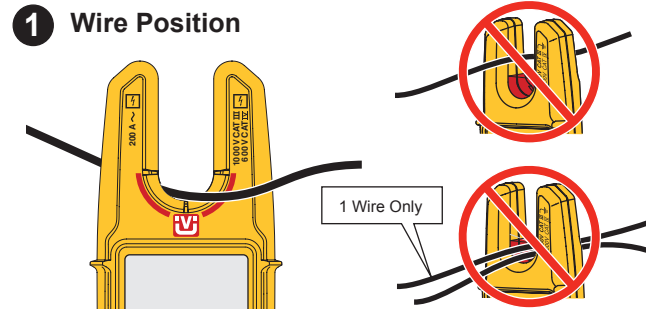
See "Safety Information".
 Go to www.fluke.com to register your product and find more information, or download this Quick Reference Guide in other languages.
 Consulte las "Información sobre seguridad".

Vaya a www.fluke.com para registrar el producto y obtener más información, o descargue esta Guía de referencia rápida en otros idiomas.

Consulte o "Informações de Segurança". Acesse www.fluke.com.br para registrar seu produto e obter mais informações, ou baixe este Guia de referência rápida em outros idiomas.



Overview



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	No	1000 V	600 V	1 V	±(3 % + 3 counts) 45 Hz to 66 Hz ^{[2][3]}
FieldSense Current ac	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	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 ac coupled, RMS responding.
 [2] 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.
 [3] FieldSense is specified from 16 V to 100 % of range.

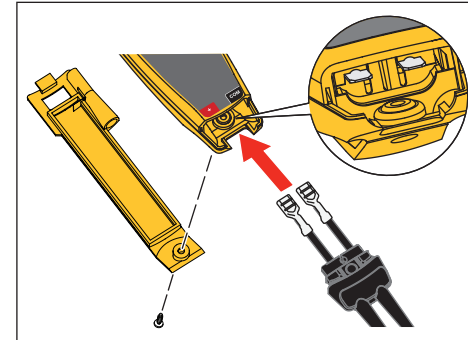
Fork Opening	17.8 mm
Calibration	1-year calibration cycle
Temperature Operating Storage	-10 °C to +50 °C (+14 °F to +122 °F) -30 °C to +60 °C (-22 °F to +140 °F)
Altitude Operating Storage	2000 m 10 000 m
Relative Humidity	0 % to 95 %, 5 °C to 30 °C (41 °F to 86 °F) 0 % to 75 %, 30 °C to 40 °C (86 °F 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


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

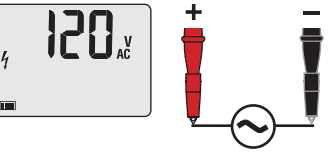


How to Make Measurements

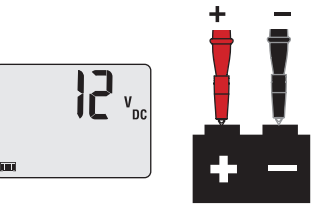
1  



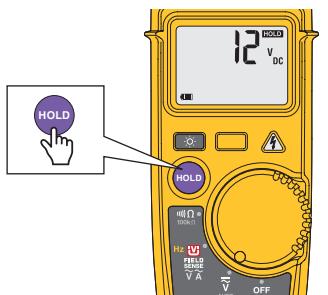
2A $\tilde{V}(AC)$ 45 Hz - 66 Hz
T6-600 max: 600 V rms CAT III
T6-1000 max: 1000 V rms CAT III
600 V rms CAT IV




2B $\bar{V}(DC)$ T6-600 max: 600 V CAT III
T6-1000 max: 1000 V CAT III
600 V CAT IV

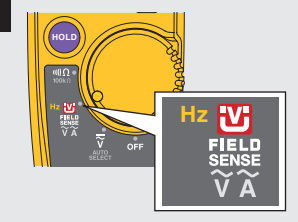


HOLD

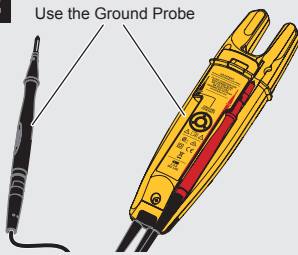


Model T6-1000 $\tilde{A} / \tilde{V} / Hz / \bar{V}$

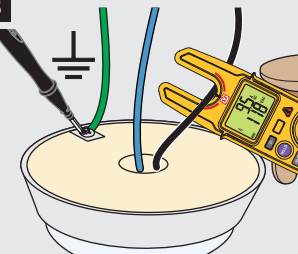
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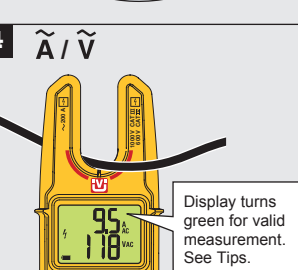
2 Use the Ground Probe



3

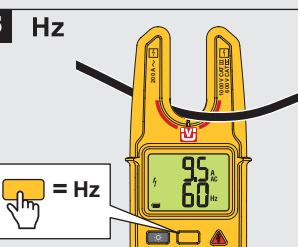


4 \tilde{A} / \tilde{V}




Display turns green for valid measurement. See Tips.

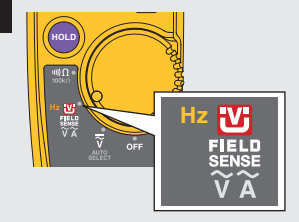
5 Hz



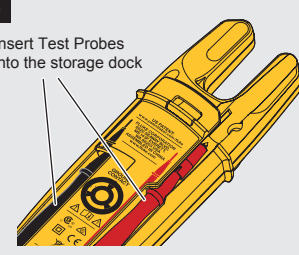
$\bar{V} = Hz$

Model T6-1000 $\tilde{A} / \tilde{V} / Hz / \bar{V}$

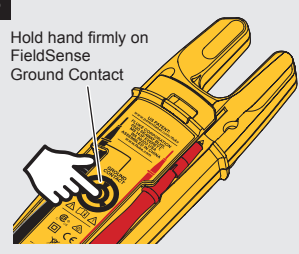
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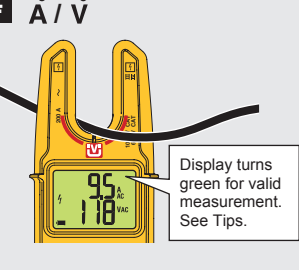
2 Insert Test Probes into the storage dock



3 Hold hand firmly on FieldSense Ground Contact

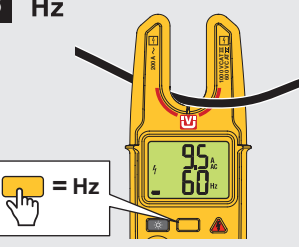


4 \tilde{A} / \tilde{V}




Display turns green for valid measurement. See Tips.

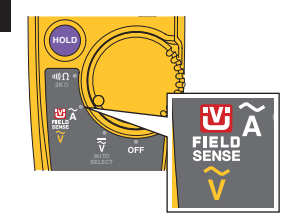
5 Hz



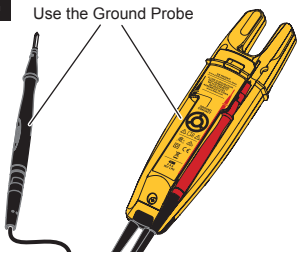
$\bar{V} = Hz$

Model T6-600 $\tilde{A} / \tilde{V} / \bar{V}$

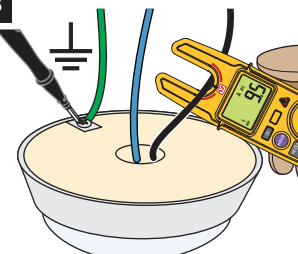
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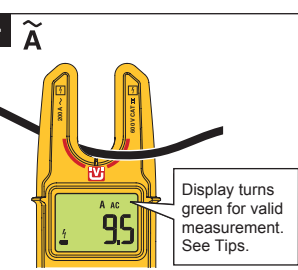
2 Use the Ground Probe



3 Hold hand firmly on FieldSense Ground Contact

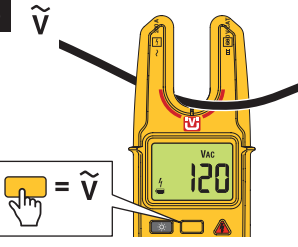


4 \tilde{A}




Display turns green for valid measurement. See Tips.

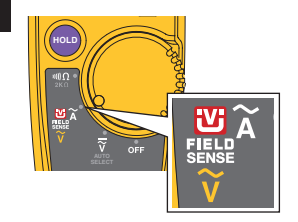
5 \tilde{V}



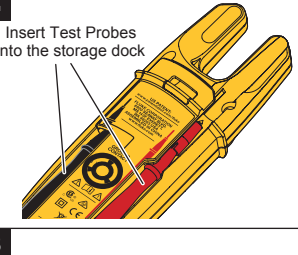
$\bar{V} = \tilde{V}$

Model T6-600 $\tilde{A} / \tilde{V} / \bar{V}$

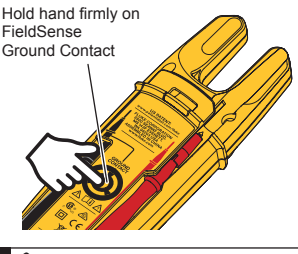
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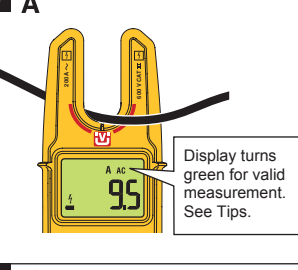
2 Insert Test Probes into the storage dock



3 Hold hand firmly on FieldSense Ground Contact

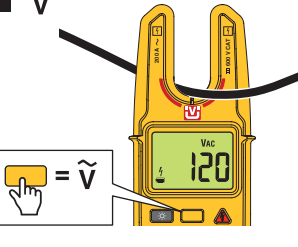


4 \tilde{A}





Display turns green for valid measurement. See Tips.

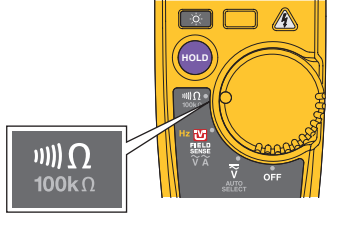
5 \tilde{V}



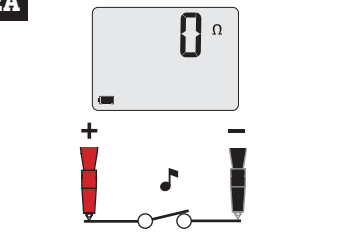
$\bar{V} = \tilde{V}$

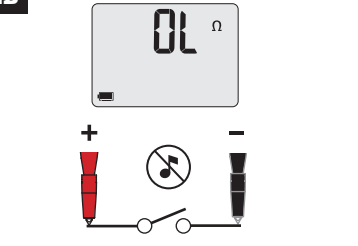
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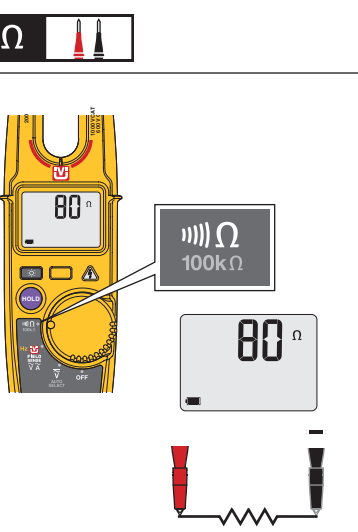
2A



2B




Ω




Tips: FieldSense Technology

Use the black probe to make the ground connection if:

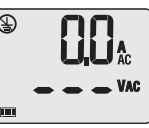

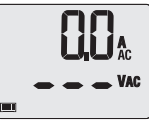
- wearing gloves or insulated footwear
- standing on an insulated ladder
- additional ground contact is required for the application

 Do not hold or touch wire during a measurement.


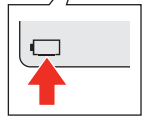
FieldSense measurement looks like this when properly grounded:



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

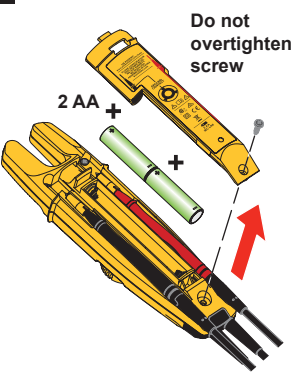
If you see:	Solution:	
	<ul style="list-style-type: none">  shows on the display Display color is gray VAC measurement does not show on display 	<ul style="list-style-type: none"> Make sure that your bare hand is firmly touching the FieldSense Ground Contact on the battery door. Check that the black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

1

Low Battery Indicator

2



Do not overtighten screw

2 AA