

TECHNICAL DATA

Fluke 1507 Insulation Resistance Tester









Key features

- Rugged, compact advanced insulation resistance tester for electrical contractors and industrial and commercial electricians
- Automatically calculates Polarization Index and Dielectric Absorption Ratio
- Makes repetitive tests simple and easy with a Compare (Pass/Fail) function
- Offers multiple insulation test voltages: 50 V, 100 V, 250 V, 500 V, and 1000 V

Product overview: Fluke 1507 Insulation Resistance Tester

The Fluke 1507 is a versatile, compact, handheld insulation tester for advanced industrial and electrical insulation testing. Its multiple test voltages make it the ideal tool for many troubleshooting, commissioning, and preventative maintenance applications.

Take advantage of the 1507 full feature set to easily and quickly perform advanced insulation resistance testing. Its handy size and light weight make it easy to pack and use. Additional features, like the remote probe, save both time and money especially when performing repetitive tests. And its reasonable price and rugged reliability make it an excellent value.

Other useful capabilities:

- Performs insulation tests from 0.01 M Ω to 10 G Ω
- Includes live circuit detection to prevent insulation test if voltage >30 V is detected
- Includes auto-discharge of capacitive voltage for added user protection
- Measures AC/DC voltage from 0.1 V to 600 V and resistance from 0.01 Ω to 20.00 k Ω
- Provides lo-ohms earth-bond continuity (200 mA)
- Simplifies repetitive or hard-to-reach testing with the remote test probe
- Saves battery power with auto power off
- Presents results on a large, backlit display
- Features CAT IV 600 V overvoltage category rating
- Comes with remote probe, test leads, test probes, alligator clips and one-year warranty
- Accepts optional Fluke TPAK magnetic hanging system to free your hands for other work
- Runs on four AA alkaline batteries (NEDA 15 A or IEC LR6) for at least 1000 insulation tests

<u>Useful resources and rugged tools for Solar professionals</u>

Specifications: Fluke 1507 Insulation Resistance Tester

AC/DC Voltage Measurement			
Accuracy	Range	600.0 V	
	Resolution	0.1 V	
	50 Hz to 400 Hz u00b1 (% of Rdg + Digits)	u00b1(2% + 3)	
Input impedance	3 Mu03a9 (nominal), < 100 pF		
Common mode rejection ratio (1 ku03a unbalanced):	a ⁹ > 60 dB at DC, 50 or 60 Hz		
Overload protection	600 V rms or DC		



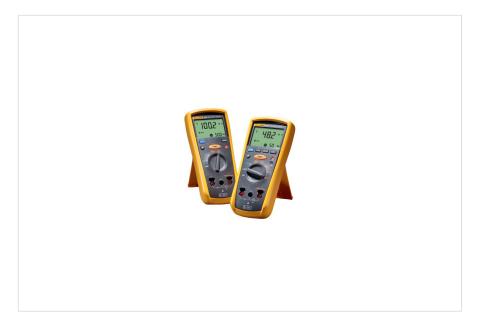
nt			
20.00 u03a9	0.01 u03a9		
200.0 u03a9	0.1 u03a9		
2000 u03a9	1.0 u03a9		
20.00 ku03a9	0.01 ku03a9		
u00b1(1.5% + 3)	u00b1(1.5% + 3)		
2 V rms or DC			
> 4.0 V, < 8 V			
> 200.0 mA	> 200.0 mA		
0.01 Mu03a9 to 10 Gu03a9			
50 V, 100 V, 250 V, 500 V, 1000 V			
+ 20%, - 0%			
1 mA nominal	1 mA nominal		
Discharge time < 0.5 second for C = 1 u00b5F or less			
Inhibit test if terminal voltage > 30 V prior to initialization of test			
Operable with up to 1 u00b5F load			
50 V	u00b1(3% + 5)		
100 V	u00b1(3% + 5)		
250 V	u00b1(1.5% +5)		
500 V	u00b1(1.5% +5)		
1000 V	u00b1(1.5% + 5) to 2000 Mu03a9, u00b1(10% + 3) above 2000 Mu03a9		
600 V AC rms or DC	600 V AC rms or DC		
-40u00b0C to 60u00b0C (-40u00b0F to 140u00b0F)			
-20u00b0C to 55u00b0C (-4u0	-20u00b0C to 55u00b0C (-4u00b0F to 131u00b0F)		
	0.05 x (specified accuracy) per u00b0C for temperatures < 18u00b0C or > 28u00b0C (< 64u00b0F or > 82u00b0F)		
0% to 95% @ 10u00b0C to 30u00b0C (50u00b0F to 86u00b0F)			
0% to 75% @ 30u00b0C to 40u00b0C (86u00b0F to 104u00b0F)			
0% to 40% @ 40w00b00 to EE	0% to 40% @ 40u00b0C to 55u00b0C (104u00b0F to 131u00b0F)		
0% to 40% @ 40000000 to 55	Random, 2 g, 5-500 Hz per MIL-PRF-28800F, Class 2 instrument		
	L-PRF-28800F, Class 2 instrument		
Random, 2 g, 5-500 Hz per MII	L-PRF-28800F, Class 2 instrument 2nd Edition (1 meter drop test, six sides, oa		
	200.0 u03a9 2000 u03a9 20.00 ku03a9 u00b1(1.5% + 3) 2 V rms or DC > 4.0 V, < 8 V > 200.0 mA 0.01 Mu03a9 to 10 Gu03a9 50 V, 100 V, 250 V, 500 V, 1000 + 20%, - 0% 1 mA nominal Discharge time < 0.5 second f Inhibit test if terminal voltage Operable with up to 1 u00b5F 50 V 100 V 250 V 500 V 1000 V 600 V AC rms or DC -40u00b0C to 60u00b0C (-40u -20u00b0C to 55u00b0C (-4uc 0.05 x (specified accuracy) pe 28u00b0C (< 64u00b0F or > 82 0% to 95% @ 10u00b0C to 30		



Safety	Complies with ANSI/ISA 82.02.01 (61010-1) 2004, CAN/CSA-C22.2 NO. 61010-1-04, and IEC/EN 61010-1 2nd Edition for measurement category IV 600 V (CAT IV)	
Certifications	CSA per standard CSA/CAN C22.2 No. 61010.1-04; TUV per standard IEC/EN 61010-1 2nd Edition	
Baeries	Four AA baeries (NEDA 15A or IEC LR6)	
Baery life	Insulation test use:	Tester can perform at least 1000 insulation tests with fresh alkaline baerie at room temperature. These are standard tests of 1000 V into 1 Mu03a9 with a duty cycle of 5 seconds on and 25 seconds off.
	Resistance measurements:	Tester can perform at least 2500 earth bond resistance measurements with fresh alkaline baeries at room temperature. These are standard tests of 1 u03a9 with a duty cycle of 5 seconds on and 25 seconds off.
Size (H x W x L)	5.0 x 10.0 x 20.3 cm (1.97 x 3.94 x 8.00 in)	
Weight	550 g (1.2 lb)	
IP rating	IP40	
Altitude	Operating	2000 m CAT IV 600 V, 3000 m CAT III 600 V
	Non-operating (storage)	12,000 m
Over-range capability	110% of range	
Included accessories	TL224 Test Leads, TP74 Test Probes, clips PN 1958654 (red) and PN 1958646 (black), holster and remote probe	



Ordering information



Fluke 1507

Fluke 1507 Insulation Resistance Tester

Includes:

- Remote probe
- Test leads
- Test probes
- Alligator clips
- User documentation

Optional accessories

Fluke C101 Hard Case

Fluke TL81A Deluxe Electronic Test Lead Kit

Fluke C25 Large Soft Case for DMMs

Fluke TL225 SureGrip™ Stray Voltage Adapter Test Lead Kit

Description

Heavy duty waterproof tool case with diced-foam interior

Ideal for testing electronic equipment and offers versatility with modular test probes, alligator clips, test clips and more.

Fits most mid-sized multimeters, process and temperature meters.

Electricians know that when you are measuring electrical installations there often appears to be a voltage, even if you know the wires are non energized.



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Fluke Corporation

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