

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 $0.01 \text{ M}\Omega$ to $10 \text{ G}\Omega$
- 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 kΩ
- 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

Useful resources and rugged tools for Solar professionals

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 ku03a9 unbalanced):	> 60 dB at DC, 50 or 60 Hz			
Overload protection	600 V rms or DC			



	00.0000-0	0.01 u03a9		
Range/Resolution	20.00 u03a9			
	200.0 u03a9	0.1 u03a9		
	2000 u03a9	1.0 u03a9		
	20.00 ku03a9	0.01 ku03a9		
Accuracy	u00b1(1.5% + 3)	u00b1(1.5% + 3)		
Overload protection	2 V rms or DC	2 V rms or DC		
Open circuit test voltage	> 4.0 V, < 8 V	> 4.0 V, < 8 V		
Short circuit current	> 200.0 mA	> 200.0 mA		
Insulation Specifications				
Measurement range	0.01 Mu03a9 to 10 Gu03	0.01 Mu03a9 to 10 Gu03a9		
Test voltage	50 V, 100 V, 250 V, 500 V	50 V, 100 V, 250 V, 500 V, 1000 V		
Test voltage accuracy	+ 20%, - 0%	+ 20%, - 0%		
Short circuit current	1 mA nominal	1 mA nominal		
Auto discharge	Discharge time < 0.5 seco	Discharge time < 0.5 second for C = 1 u00b5F or less		
Live circuit indicator	Inhibit test if terminal vol	Inhibit test if terminal voltage > 30 V prior to initialization of test		
Maximum capacitive load	Operable with up to 1 u00	Operable with up to 1 u00b5F load		
Measure accuracy	50 V	u00b1(3% + 5)		
	100 V	u00b1(3 <mark>% + 5)</mark>		
	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		
General Specifications				
Maximum voltage applied to any terminal:	600 V AC rms or DC	600 V AC rms or DC		
Storage temperature	-40u00b0C to 60u00b0C	-40u00b0C to 60u00b0C (-40u00b0F to 140u00b0F)		
Operating temperature	-20u00b0C to 55u00b0C	-20u00b0C to 55u00b0C (-4u00b0F to 131u00b0F)		
Temperature coefficient		0.05 x (specified accuracy) per u00b0C for temperatures < 18u00b0C or > 28u00b0C (< 64u00b0F or > 82u00b0F)		
	0% to 95% @ 10u00b0C t	0% to 95% @ 10u00b0C to 30u00b0C (50u00b0F to 86u00b0F)		
Relative humidity	0% to 75% @ 30u00b0C t	0% to 75% @ 30u00b0C to 40u00b0C (86u00b0F to 104u00b0F)		
,	0% to 40% @ 40u00b0C t	0% to 40% @ 40u00b0C to 55u00b0C (104u00b0F to 131u00b0F)		
Vibration	Random, 2 g, 5-500 Hz pe	Random, 2 g, 5-500 Hz per MIL-PRF-28800F, Class 2 instrument		
Shock	1 meter drop per IEC 610 floor)	1 meter drop per IEC 61010-1 2nd Edition (1 meter drop test, six sides, oak floor)		
Electromagnetic compatibility	DE (: 11 (0)//)4	In an RF field of 3 V/M, accuracy = specified accuracy (EN 61326-1:1997)		



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 baeries 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

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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