Fluke 1507 1000V Insulation Resistance Tester Tech Specs

AC/DC Voltage Measuren	nent					
Accuracy	Range 600.0 V					
	Resolution 0.1 V					
	50 Hz to 400 Hz ±(% of Rdg + Digits) ±(2% + 3)					
Input impedance	$3 \text{ M}\Omega$ (nominal), < 100 pF					
Common mode rejection						
ratio (1 kΩ						
unbalanced)	> 60 dB at D <mark>C, 5</mark> 0 or 60 Hz					
Overload protection	600 V rms or DC					
Earth Bond Resistance Me	easurement					
Range/Resolution	20.00 Ω 0.01 Ω					
	200.0 Ω 0.1 Ω					
	2000 Ω 1.0 Ω					
	20.00 kΩ 0.01 kΩ					
Accuracy	$\pm(1.5\% + 3)$					
Overload protection	2 V rms or DC					
Open circuit test voltage	> 4.0 V, < 8 V					
Short circuit current	> 200.0 mA					
Insulation Specifications	0,					
Measurement range	0.01 MΩ to 2000 MΩ					
Test voltage	500 V, 1000 V					
Test voltage accuracy	+ 20%, - 0%					
Short circuit current	1 mA nominal					
Auto discharge	Discharge time < 0.5 second for C = 1 µF or less					
Live circuit indicator	Inhibit test if terminal voltage > 30 V prior to initialization of test					
Maximum capacitive load	Operable with up to 1 μF load					
Measure accuracy	500 V ±(1.5% + 5)					
	±(1.5% + 5) to 2000 MΩ, ±(10% + 3) above 2000 MΩ					
General Specifications						
Maximum voltage applied	1600 V AC rms or DC					
Storage temperature	-40°C to 60°C (-40°F to 140°F)					
Operating temperature	-20°C to 55°C (-4°F to 131°F)					
Temperature coefficient	0.05 x (specified accuracy) per °C for temperatures < 18°C or > 28°C (< 64°F or > 82°F)					
Relative humidity	0% to 95% @ 10°C to 30°C (50°F to 86°F)					
	0% to 75% @ 30°C to 40°C (86°F to 104°F)					
	0% to 40% @ 40°C to 55°C (104°F to 131°F)					
Vibration	Random, 2 g, 5-500 Hz per MIL-PRF-28800F, Class 2 instrument					
Shock	1 meter drop per IEC 61010-1 2nd Edition (1 meter drop test, six sides, oak floor)					
Electromagnetic compatibility	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					
Batteries	Four AA batteries (NEDA 15A or IEC LR6)					
Battery Life	Insulation test use:	Tester can perform at least 1000 insulation tests with fresh alkaline batteries at room temperature. These are standard tests of 1000 V into 1 M Ω 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 batteries at room temperature. These are standard tests of 1 Ω 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 and remote probe	t Probes, clips PN 1958654 (red) and PN 1958646 (black), holster				