

## 501 Insulation Tester

The model 501 can be used for general purpose insulation tests that require voltages from 50V to 1000V only.

The Instrument is equipped with AC and DC measuring ranges up to 1000V. This is advantageous for testing for the absence of voltage and the discharge of capacitive devices under test.

The 501 features a quick testing signal lamp within the test probe that illuminates the work area. The signal lamp can also be used for quick Pass/Fail evaluations of insulation resistances. Minimum values for insulation resistances are present if the lamp lights up.

Comes equipped with built-in test probes, an alligator clip, a leatherette carrying case and batteries.



- Five Test Voltages: 50, 100, 250, 500, and 1000 VDC
- Voltage Measurement to 1000 V AC/DC
- Test Probe Signal Lamp Illuminates Work Area and Indicates Pass/Fail of Insulation Resistance
- Battery Powered with Battery Test and Battery Charge Indicator
- Rugged Tester Design for Industrial Applications with Leatherette Carrying Case

Ordering Information		
Accessories	Catalog Number	
501 Insulation Tester, 1000V	12501	

Rev. 04-15



## 501 Insulation Tester

Measuring Ra	anges				
Insulation Resistance					
Measuring Range	Open-Circuit Voltage U	Internal Resistance R	Lamp in Test Prod Lights for Resistance (1)		
050ΚΏ		30ΚΏ			
20ΚΏ1ΜΏ	60V	10ΚΏ	> 100ΚΏ		
200ΚΏ20ΜΏ		40ΚΏ			
0100ΚΏ		60ΚΏ			
40ΚΏ2ΜΏ	120V	20ΚΏ	> 200ΚΏ		
400ΚΏ40ΜΏ		80ΚΏ			
0250ΚΏ		150ΚΏ			
100ΚΏ5ΜΏ	300V	50ΚΏ	> 500ΚΏ		
1ΜΏ100ΜΏ		200ΚΏ			
0500ΚΏ		300ΚΏ			
200ΚΏ10ΜΏ	600V	100ΚΏ	> 1MΩ		
2ΜΏ200ΜΏ		400ΚΏ			
01ΜΏ		600ΚΏ			
400ΚΏ20ΜΏ	1200V	200ΚΏ	> 2MΩ		
4ΜΏ400ΚΏ		800ΚΏ			
04ΚΏ	9V	-	-		
(1) Switching Acc	uracy				

Direct and Alternating Current						
Measuring Range	Frequency	Internal Resistance	Maximum Overload	Intrinsic Error (1)		
0 to 1000V AC/DC	0 or 40 to 200Hz	900ΚΏ	1200V AC/DC Continuous	± 2.5%		
(1) Referring to scale length						
Specifications subject to change without notice						

2 Rev. 04-15



## 501 Insulation Tester

0 10 41	The state of the s			
Specifications				
REFERENCE CONDITIONS				
Ambient Temperature	73°F (23°C) ± 4°F (2°C)			
Relative Humidity	45 to 55%			
Measurement Magnitude Frequency	45-65 Hz (voltage measurements)			
Line Voltage Waveform	Sine, deviation between effective and rectified value < .5%			
Battery Voltage	9V ± .5V			
Operating Position	Horizontal			
ELECTROMAGNETIC COMPATIBILITY EMO				
Interference Emission	EN 50081-1: 1992			
Interference Immunity	EN 50082-1: 1992			
ELECTRICAL SAFETY				
Designed to IEC 1010-1 Protection Class	II			
Test Voltage	≈ 5.55Kv			
Overvoltage Classification	II			
Pollution Degree	2			
Protection	Housing IP52			
AMBIENT CONDITIONS				
Operating Temp. Range	32°F (0°C) to 104°F (40°C)			
Storage Temp. Range	-4°F (-20°C) to 140°F (60°C) (without batteries)			
Relative Humidity	Max. 45-55%, condensation must be avoided			
MECHANICAL DESIGN				
Dimensions	<b>W</b> 6.50" (165mm) x <b>D</b> 4.33" (110mm) x <b>H</b> 4.92" (125mm)			
Weight	3.5 lbs. (1.6kg) (with batteries)			
POWER SUPPLY				
Standard or Storage Battery	6 ea. 1.5V "D" size batteries			
Working Range	7V to 10V			
Battery Service Life	Number of possible measurements with 1 set of "D" size batteries (with lamp in test prod switched off): at least 3,000 measurements of an insulation resistance of $1M\Omega$ (Nominal Voltage of 1000 V, 5 sec. Measurement duration, switched off for 25 sec. etc.)			

3 Rev. 04-15

## **X-ON Electronics**

Largest Supplier of Electrical and Electronic Components

Click to view similar products for Insulation Testers/Megohmmeters category:

Click to view products by Simpson manufacturer:

Other Similar products are found below:

FLK-1662-US AX-T2200 AX-T2400 BM878 UT511 UT526 UT512 MG320 C.A 6501 C.A 6503 C.A 6524 C.A 6526 UT501B UT502A UT505A UT513A UT522 UT582+ AX-T1220 380260 380363 380395 MG500 1553041 FLUKE-1503 FLUKE-1507 K7GE-MG1 K7GE-MGMD K7GE-MGMA 2730991 BM15 307A 308A 19249 U1452A