



# AIT 501

## 5KV *Smart* Digital Insulation Tester



The Agam AIT 501 is the compact insulation resistance tester with diagnostic features like PI, DAR. When carrying out insulation resistance measurements this device uses test voltages of 500V, 1000V, 2500V and 5000V. At 500V this tester can carry out insulation resistance measurements from 1MΩ to 20GΩ, it carries out this measurement at 5MΩ to 100GΩ. The tester can also be used to carry out AC/DC voltage measurements and low resistance testing. The AIT 501 is an autoranging device and will automatically choose the applicable range depending on the test. It also includes a large, backlit LCD screen, auto power down function when left idle and includes a USB interface for using the tester to download data to PC. To accompany USB connectivity the AIT 501 also includes datalogging capabilities. When displaying testing results the AIT 501 uses both numerical and analogue bar graph representation of the test results. It also allows users to carry out comparisons, polarisation index calculations and dielectric absorption calculations. This insulation resistance tester is CAT III 600V, EN 61010-1 and EN 61326-1 compliant. An ideal tool for Insulation testing designed smartly.

Features	Benefits
Robust unit	Ideal for portable testing
Test voltages of 500V, 1000V, 2500V and 5000V & Insulation Resistance measurement upto 1 TΩ	To cater wide applications
Automatic Polarisation Index (PI), Dielectric Absorption Ratio (DAR)	For diagnostic testing of Insulation
DC/AC voltage measurements to 600V	To check live voltages if any present in DUT
Autoranging insulation resistance tester	No need to select range manually
Auto shut down when left idle & Optional Operation on Mains via adapter	Ensures Battery saving
Datalogging capabilities and USB interface	For maintaining records & data analysis
Comparator Function	Pass/fail (Go-No-Go) test for the insulation measurements
Wide LCD with backlit screen, Analog bar graph (30 segment)	For Easy, Comfortable and Accurate viewing



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### Specifications:

Test Voltages	500V, 1000V, 2500V, 5000V
Test Voltage Accuracy	0% to 20%
500V Range (Accuracy)	1M0hm to 20G0hm ( $\pm 3\%+5$ )
1000V Range (Accuracy)	2M0hm to 40G0hm ( $\pm 3\%+5$ )
2500V Range (Accuracy)	5M0hm to 100G0hm ( $\pm 3\%+5$ )
5000V Range (Accuracy)	10M0hm to 1000G0hm ( $\pm 3\%+5$ )
Short Circuit Current	1.8 mA
AC/ DC Voltage	600V
Low Resistance	0.10hm to 999.90hm

### Standards:

- CE Certified
- IEC 61010
- CAT III 600V
- Double Insulation standard

### Environmental Specifications:

- Operating Temperature: -10 to 40 °C
- Storage Temperature: -20 to 60° C
- Relative humidity: 85% @ -10 °C to 40 °C
- Below 90% @ -20 °C to 60°C :
- Height above Sea Level: 2000 meters

### Physical Specifications:

Net Weight: Approx. 2kg (including battery)  
Dimensions (H x W x L) : 202 x 155 x 94 mm  
LCD Size: 123mm x 58mm

Marketed by:

**RISHABH INSTRUMENTS PVT. LTD.**

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### Power

1.5V Alkaline Batteries (LR6) x 8

### Accessories

1. Operating Manual (1 piece)
2. One plug test lead to one alligator clip (Black colour)(1 piece)
3. One plug test lead to one alligator clip (Green colour)(1 piece)
4. Two plugs test lead to one alligator clip (Red colour) (1 piece)
5. 1.5V Battery (LR14) (6 piece)
6. Tool Box USB (1 piece)
7. Interface Cable (1 piece)
8. Software

### Optional Accessories:

1. Power adaptor (input voltage 230V, 50/60Hz, 75mA, output DC14V, 1.0A)

### Applications:

- MV & LV Transformers
- MV & LV Motors, Generators
- MV & LV Cables
- MV Switchgears & Panels