

UNI-T UT501A insulation resistance tester



Model: UT501A

Manufacturer: UNI-T

EAN: 6935750550113

Product Code: 1095717

R2,055

UNI-T UT501A insulation resistance tester

UNI-T UT501A insulation resistance tester is a versatile device designed to accurately measure insulation resistance in electrical equipment and households. It can measure insulation between electrical circuits or between a circuit and ground. The UT501A offers measurements of insulation resistance, AC voltage, low resistance, as well as PI (polarization index) and DAR (dielectric absorption coefficient). Equipped with a 2,000-count LCD display, backlight function, overload indicator and automatic shutdown, the UT501A ensures safety, accuracy and convenience during operation. In addition, CE and UKCA certifications confirm the device's high quality and compliance with European standards.

Advanced measurement functions for demanding users

The product information provided is for reference purposes only. Technical specifications, photos, descriptions and prices may change without prior notice. The manufacturer and seller are not responsible for possible data discrepancies or typographical errors. We recommend checking the current information before purchasing.

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The UT501A tester not only provides standard measurements, but also offers a continuous low-value resistance measurement mode, an automatic discharge function, and a continuous measurement mode supported by audible signals and a red warning light. The PI and DAR functions, along with automatic resistivity calculation, allow detailed evaluation of the insulation condition of high-voltage equipment such as transformers, generators, motors, capacitors or cables. In addition, the low resistance zeroing function increases the accuracy of measurements, making the UT501A an invaluable tool in the diagnosis and maintenance of electrical installations.

Durable design and convenient use

The UT501A's compact and sturdy housing ensures that it can withstand heavy use in the field and at industrial sites. The LCD display with backlight function allows reading the results even in harsh lighting conditions, and automatic shutdown extends battery life. With continuous measurement capability and an intuitive warning system, you gain full control over the testing process, allowing you to quickly and safely assess the condition of your installation. The UNI-T UT501A is an indispensable partner wherever reliability and precision count.

Included

- insulation resistance tester
- batteries
- test leads
- crocodiles
- instruction manual

Manufacturer	UNI-T
Model	UT501A
Number of displayed digits	2000
DAR measurement	Supported (60 s / 15 s and 60 s / 30 s)
PI measurement	Supported

Automatic range selection / low battery indicator	Supported
LCD backlight / alarm light signal	Built-in
Audible alarm / high voltage indication	Built-in
Overload / automatic discharge indicator	Built-in
Secondary test voltage display	Built-in
Internal resistance test 10 MΩ	Supported
Standards met	IEC 61557 (61557-1:2007; 61557-2:2007; 61557-4:2007 - UT502A only)
Power supply	6 × 1.5 V battery (LR6)
Display	70.6 × 34 mm
Product color	Red, gray
Weight	500 g
Dimensions	150 × 100 × 71 mm

Measuring ranges

Test voltages	100 V / 250 V / 500 V / 1000 V; 250 V / 500 V / 1000 V; 500 V / 1000 V / 2500 V
Insulation resistance measurement (Ω)	100 V: 0 MΩ ~ 100 MΩ (accuracy ±(3%+5)); 250 V: 0 MΩ ~ 99.9 MΩ (±(3%+5)), 100 MΩ ~ 5 GΩ (±(5%+5)); 500 V: 0 MΩ ~ 99.9 MΩ (±(3%+5)), 100 MΩ ~ 5 GΩ (±(5%+5)); 1000 V: 0 MΩ ~ 99.9 MΩ (±(3%+5)), 100 MΩ ~ 5 GΩ (±(5%+5)); 2500 V: 0 MΩ ~ 99.9 MΩ, 100 MΩ ~ 9.9 GΩ, 10 GΩ ~ 20 GΩ
Load current	50 V (50 kΩ) 1 mA (0% ~ 10%); 100 V (100 kΩ) 1 mA (0% ~ 10%); 250 V (250 kΩ) 1 mA (0% ~ 10%); 500 V (500 kΩ) 1 mA (0% ~ 10%); 1000 V (1 MΩ) 1 mA (0% ~ 10%); 2500 V (1 MΩ) 1 mA (0% ~ 10%)
Short-circuit current	2 mA

Low resistance measurement (Ω) 0.01 Ω ~ 200 Ω (about 5.0 V, above 200 mA)

AC voltage measurement (V) 30 V ~ 750 V ($\pm(2\%+3)$); 30 V ~ 600 V

GPSR Link: https://psr-assets.innpro.pl/tools/sg_tools_measuring_tools.pdf, Gross weight: 820, Net weight: 500, Box length: 18,00, Box width: 9,00, Box height: 14,50

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