

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 |

| Measuring Ranges | | | |
|------------------------------|-------------------------------|------------------------------|--|
| Insulation Resistance | | | |
| Measuring Range | Open-Circuit Voltage U | Internal Resistance R | Lamp in Test Prod Lights for Resistance (1) |
| 0...50KΩ | 60V | 30KΩ | > 100KΩ |
| 20KΩ...1MΩ | | 10KΩ | |
| 200KΩ...20MΩ | | 40KΩ | |
| 0...100KΩ | 120V | 60KΩ | > 200KΩ |
| 40KΩ...2MΩ | | 20KΩ | |
| 400KΩ...40MΩ | | 80KΩ | |
| 0...250KΩ | 300V | 150KΩ | > 500KΩ |
| 100KΩ...5MΩ | | 50KΩ | |
| 1MΩ...100MΩ | | 200KΩ | |
| 0...500KΩ | 600V | 300KΩ | > 1MΩ |
| 200KΩ...10MΩ | | 100KΩ | |
| 2MΩ...200MΩ | | 400KΩ | |
| 0...1MΩ | 1200V | 600KΩ | > 2MΩ |
| 400KΩ...20MΩ | | 200KΩ | |
| 4MΩ...400KΩ | | 800KΩ | |
| 0...4KΩ | 9V | - | - |

(1) Switching Accuracy

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

| 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 EMC | |
| 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 | W 6.50" (165mm) x D 4.33" (110mm) x H 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 1MΩ (Nominal Voltage of 1000 V, 5 sec. Measurement duration, switched off for 25 sec. etc.) |

Данный компонент на территории Российской Федерации

Вы можете приобрести в компании MosChip.

Для оперативного оформления запроса Вам необходимо перейти по данной ссылке:

<http://moschip.ru/get-element>

Вы можете разместить у нас заказ для любого Вашего проекта, будь то серийное производство или разработка единичного прибора.

В нашем ассортименте представлены ведущие мировые производители активных и пассивных электронных компонентов.

Нашей специализацией является поставка электронной компонентной базы двойного назначения, продукции таких производителей как XILINX, Intel (ex.ALTERA), Vicor, Microchip, Texas Instruments, Analog Devices, Mini-Circuits, Amphenol, Glenair.

Сотрудничество с глобальными дистрибьюторами электронных компонентов, предоставляет возможность заказывать и получать с международных складов практически любой перечень компонентов в оптимальные для Вас сроки.

На всех этапах разработки и производства наши партнеры могут получить квалифицированную поддержку опытных инженеров.

Система менеджмента качества компании отвечает требованиям в соответствии с ГОСТ Р ИСО 9001, ГОСТ РВ 0015-002 и ЭС РД 009

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