

DIGITAL INSULATION RESISTANCE TESTER

For 3 Range Insulation Measurements

Model **MIS-2D**

125V/ 20M Ω
250V/ 50M Ω
500V/100M Ω

Model **MIS-3D**

250V/ 50M Ω
500V/ 100M Ω
1000V/2000M Ω

Model **MIS-4D**

125V/ 20M Ω
250V/ 50M Ω
1000V/2000M Ω



FEATURES

- The big digital and bargraph LCD display with back light enabled easy observation. Especially useful when working in dark place.
- Hand free and continuous measurements with custom made switch.
- Safe design with built in automatic discharging function for any capacitors present in the circuit.
- The voltage in the circuit or capacitor can be checked by warning lamp for safe insulation measurements.
- Data hold and auto power off function.
- Compact, light weight and heavy duty rugged case.

DIGITAL AND BARGRAPH DISPLAY INSULATION TESTER

SPECIFICATIONS

| | |
|--------------------------------------|---|
| Function | : Insulation resistance, AC voltage |
| Display | : 3½ digit LCD with bargraph display, max. reading of 3200 count and annunciators |
| Response time | : Less than 5 sec. (Auto ranging) |
| Data hold indication | : "DH" mark on LCD readout |
| Infinity indication | : "OL(∞)" mark on LCD readout (Over 3200 count) |
| Safety standard | : Meets the requirements for double insulation to IEC 61010-1 (2001), IEC 61010-2-032 (2002) installation Category II, 600V phase to earth. |
| E.M.C. standard | : The instrument meets EN 61326 (2004) |
| Constructional standard | : In accordance with IEC 1557-2 or JIS C1302 (1994) |
| Insulation resistance | : DC 500V-50MΩ or more (MIS-2D) DC 1000V-50MΩ or more (MIS-3D, MIS-4D) |
| Withstanding voltage | : AC 3700V, 1 minute (Between input terminal and outer case) |
| Overload protection | : 120% of the highest nominal output voltage (10sec.) |
| Low battery indication | : "B" mark on LCD readout |
| Temperature characteristics (0~40°C) | : ±5%rdg of specified accuracy |
| Operating temperature | : 0°C to 40°C, 80% RH max. (Non-condensing) |
| Storage temperature | : -10°C to 60°C, 80% RH max. (Non-condensing) |
| Power supply | : 1.5V("AA" size, LR6)×6 |
| Size | : 170 (W)×105(D)×54(H)mm |
| Weight | : Approx. 365g (Excluding batteries) |
| Accessories | : Line test lead1 Earth test lead1 Batteries6 Test lead case1 Belt1 Instruction manual1 |
| Optional accessory | : Remote switch test lead |

Measuring Ranges and Technical Data

Insulation resistance measurement

| Model | MIS-2D | MIS-3D | MIS-4D |
|--|--------------------------------------|---|--|
| Rated voltage & effective measuring range | 125V-20MΩ 250V-50MΩ 500V-100MΩ | 250V- 50MΩ 500V- 100MΩ 1000V-2000MΩ | 125V-20MΩ 250V-50MΩ 1000V-2000MΩ |
| Minimum measurable resistance at rated voltage | 0.125MΩ 0.25MΩ 0.5MΩ | 0.25MΩ 0.5MΩ 1MΩ | 0.125MΩ 0.25MΩ 1MΩ |
| Rated current | 1mA+20%-0% | | |
| Maximum no-load voltage | Rated voltage+30%-0% | | |
| Short circuit current | <2mA | | |

Accuracy

| Rated voltage | DC 125V | DC 250V | DC 500V | DC 1000V |
|------------------------|---|---|--|--------------------------------------|
| Measuring range | 0~20MΩ~0L(∞) | 0~50MΩ~0L(∞) | 0~100MΩ~0L(∞) | 0~2000MΩ~0L(∞) |
| First effective range | 0.02MΩ~10MΩ <±5%rdg | 0.05MΩ~20MΩ <±5%rdg | 0.1MΩ~50MΩ <±5%rdg | 2MΩ~1000MΩ ±5%rdg |
| Second effective range | 0.01MΩ~0.02MΩ 10MΩ~100MΩ <±10%rdg | 0.02MΩ~0.05MΩ 20MΩ~100MΩ <±10%rdg | 0.05MΩ~0.1MΩ 50MΩ~100MΩ <±10%rdg | 1MΩ~2MΩ 1000MΩ~2000MΩ <±10%rdg |
| Other range | 100MΩ~0L(∞) Not specified | | | 2000MΩ~0L(∞) Not specifind |

AC voltage measurement (50/60Hz)

| Range | Accuracy | Input impedance | Maximum input voltage |
|---------|---------------------|-----------------|-----------------------|
| AC 600V | ±2.5% of full count | Approx.20MΩ | AC 600V rms |