

## DIGITAL INSULATION RESISTANCE TESTER

*For 3 Range Insulation Measurements*

Model **MIS-2D**

125V/ 20M $\Omega$   
250V/ 50M $\Omega$   
500V/100M $\Omega$

Model **MIS-3D**

250V/ 50M $\Omega$   
500V/ 100M $\Omega$   
1000V/2000M $\Omega$

Model **MIS-4D**

125V/ 20M $\Omega$   
250V/ 50M $\Omega$   
1000V/2000M $\Omega$



### 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 lead .....1 Earth test lead .....1 Batteries .....6 Test lead case .....1 Belt .....1 Instruction manual .....1
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