

# DIGITAL INSULATION RESISTANCE TESTER

## Model MIS-2D

125V/20MΩ  
250V/50MΩ  
500V/100MΩ

## Model MIS-3D

250V / 50MΩ  
500V / 100MΩ  
1000V/2000MΩ

## Model MIS-4D

125V / 50MΩ  
500V / 100MΩ  
1000V/2000MΩ



(CE)

## FEATURES

- The big digital and bar graph 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.

## Measuring Ranges and Technical Data

### Insulation resistance

Model	MIS-2A	MIS-3A	MIS-4A
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%		
Open circuit voltage	Rated voltage + 30% - 0%		
Short circuit current	<2mA		

## SPECIFICATIONS

Function	: Insulation resistance, AC voltage
Display	: 3.5 digit LCD with bar graph display, max. reading of 3200 count and annunciators
Safety standard	: IEC 61010-1 Installation category II, 600V phase to earth.
E.M.C. standard	: EN 61326
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)
Constructional standard	: In accordance with IEC1557-2 or JIS C1302 (1994)
Withstanding voltage	: AC 3700V, 1 minute (Between input terminal and outer case)
Overload protection	: 120% of the highest nominal output voltage (10 sec.)
Battery check	: DC 6.3V~9.5V
Low battery indication	: Battery mark on LCD readout
Temperature characteristics (0~40°C)	: ±5% rdg of specified accuracy
Storage temperature	: 0°C to 40°C, 80% RH max. (Without condensation) -10°C~60°C, 80% RH max (Without condensation)
Power supply	: 1.5V (AM-3,R6 or "AA" size) × 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	: Test probe with remote switch

### Accuracy

Rated voltage	DC 125V	DC 250V	DC 500V	DC 1000V
Measuring range	0~20MΩ~OL(∞)	0~50MΩ~OL(∞)	0~100MΩ~OL(∞)	0~2000MΩ~OL(∞)
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~20MΩ <±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~OL(∞) :Accuracy is not Specified			

### AC voltage (50/60Hz)

Range	Accuracy	Input impedance	Maximum input voltage
AC 600V	±2.5% of full scale	Approx. 20M	AC 600V rms