

ANALOG INSULATION RESISTANCE TESTER

Model MIS-1A

50V/10MΩ
125V/20MΩ
250V/50MΩ

Model MIS-2A

125V/20MΩ
250V/50MΩ
500V/100MΩ

Model MIS-3A

125V / 20MΩ
250V / 50MΩ
1000V/2000MΩ

Model MIS-4A

250V / 50MΩ
500V / 100MΩ
1000V/2000MΩ



(CE)

FEATURES

- The single and fluorescent scale indicator for 3 ranges insulation measurements 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 can be pre-checked without any switch operation for safe insulation measurements.
- Compact, light weight and heavy duty rugged case.

Measuring Ranges and Technical Data

Insulation resistance

Model	MIS-1A	MIS-2A	MIS-3A	MIS-4A
Rated voltage & effective measuring range	50V-10MΩ 125V-20MΩ 250V-50MΩ	125V-20MΩ 250V-50MΩ 500V-100MΩ	125V-20MΩ 250V-50MΩ 1000V-2000MΩ	250V-50MΩ 500V-100MΩ 1000V-2000MΩ
Center scale	0.2MΩ/0.5MΩ/1MΩ	0.5MΩ/1MΩ/50MΩ	0.5MΩ/1MΩ/2MΩ	1MΩ/2MΩ/50MΩ
Minimum measurable resistance at rated voltage	0.05MΩ 0.125MΩ 0.25MΩ	0.125MΩ 0.25MΩ 0.5MΩ	0.125MΩ 0.25MΩ 1MΩ	0.25MΩ 0.5MΩ 1MΩ
Rated current	1mA + 20% - 0%			
Open circuit voltage	Rated voltage + 30% - 0%			
Short circuit current	<2mA			

SPECIFICATIONS

Function	: Insulation resistance, AC voltage, Battery check
Meter movement	: 100 μ A, 870 Ω , Taut band meter
Safety standard	: IEC 61010-1 (2001) Installation category II, 600V phase to earth.
E.M.C. standard	: EN 61326
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 limit	: DC 6.3V
Temperature characteristics (0~40°C)	: $\pm 5\%$ rdg of specified accuracy
Operating temperature	: 0°C to 40°C, 80% RH max. (Without condensation)
Storage temperature	: -10°C~60°C, 80% RH max (Without condensation)
Power supply	: 1.5V (AM-3,R6 or“AA” size) $\times 6$
Size	: 170 (W) $\times 105$ (D) $\times 54$ (H)mm
Weight	: Approx. 330g (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 50V	DC 125V	DC 250V	DC 500V	DC 1000V
First effective range	0.01M Ω ~5M Ω $\pm 5\%$ rdg	0.02M Ω ~10M Ω $\pm 5\%$ rdg	0.05M Ω ~20M Ω $\pm 5\%$ rdg	0.1M Ω ~50M Ω $\pm 5\%$ rdg	2M Ω ~1000M Ω $\pm 5\%$ rdg
Second effective range	0.005M Ω ~ 0.01M Ω 5M Ω ~10M Ω \pm 10%rdg	0.01M Ω ~ 0.02M Ω 10M Ω ~20M Ω $\pm 10\%$ rdg	0.02M Ω ~ 0.05M Ω 20M Ω ~50M Ω \pm 10%rdg	0.05M Ω ~ 0.1M Ω 50M Ω ~100M Ω $\pm 10\%$ rdg	1M Ω ~2M Ω 1000M Ω ~ 2000M Ω $\pm 10\%$ rdg
	10M Ω ~50M Ω $\pm 30\%$ rdg	10M Ω ~100M Ω $\pm 30\%$ rdg	50M Ω ~100M Ω $\pm 30\%$ rdg		

AC voltage (50/60Hz)

Range	Accuracy	Input impedance	Maximum input voltage
AC 600V	$\pm 2.5\%$ of full scale	Approx. 1.5M	AC 600V rms