

ANALOG INSULATION RESISTANCE TESTER

Single Scale Indicator for 3 Range Insulation Measurements

Model MIS-1A

50V/10MΩ, 125V/20MΩ
250V/50MΩ

Model MIS-2A

25V/ 20MΩ, 250V/ 50MΩ
500V/100MΩ

Model MIS-3A

125V/ 20MΩ, 250V/ 50MΩ
1000V/2000MΩ

Model MIS-4A

250V/ 50MΩ, 500V/
100MΩ
1000V/2000MΩ



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.

SPECIFICATIONS

Function	: Insulation resistance, AC voltage, battery check
Meter movement	: 100μA, 870Ω, taut band meter.
Safety standard	: IEC 61010-1 CATII, 600V
E.M.C. standard	: EN 61326
Constructional standard	: IEC 61557-2
Insulation resistance	: DC 500V-50MΩ or more (MIS-1A, MIS-2A) DC 1000V-50MΩ or more (MIS-3A, MIS-4A)
Withstanding voltage	: AC 3700V, 1 minute (Between input terminal and outer case)
Overload protection	: 120% of the highest nominal output voltage (10sec.)
Battery check	: DC 6.3V~9.5V
Low battery limit	: DC6.3V
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, R6)×6
Size	: 170(W)×105(D)×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	: Remote switch test lead

Measuring Ranges and Technical Data

Insulation resistance measurement

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	0.05 MΩ 0.125MΩ 0.25 MΩ	0.125MΩ 0.25MΩ 0.5 MΩ	0.125MΩ 0.25MΩ 1MΩ	0.25MΩ 0.5MΩ 1MΩ
Rated current	1mA+20%-0%			
Maximum no-load voltage	Rated voltage+30%-0%			
Short circuit current	<2mA			

Accuracy

Rated voltage	DC 50V	DC 125V	DC 250V	DC 500V	DC 1000V
First effective range	0.01MΩ~5MΩ ±5%rdg	0.02MΩ~10MΩ ±5%rdg	0.05MΩ~20MΩ ±5%rdg	0.1MΩ~50MΩ ±5%rdg	2MΩ~1000MΩ ±5%rdg
Second effective range	0.005MΩ~0.01MΩ 5MΩ~10MΩ ±10%rdg	0.01MΩ~0.02MΩ 10MΩ~20MΩ ±10%rdg	0.02MΩ~0.05MΩ 20MΩ~50MΩ ±10%rdg	0.05MΩ~0.1MΩ 50MΩ~100MΩ ±10%rdg	1MΩ~2MΩ 1000MΩ~2000MΩ ±10%rdg
	10MΩ~50MΩ ±30%rdg	20MΩ~100MΩ ±30%rdg	50MΩ~100MΩ ±30%rdg		

AC voltage measurement (50/60Hz)

Range	Accuracy	Input impedance	Maximum input voltage
AC 600V	±2.5% of full scale	Approx. 1.5MΩ	AC 600V rms