Insulation Analyzers 1 kV DC-10 kV DC



Design Features

- Microprocessor-controlled
- Rechargeable battery
- Auto-range
- External Noise rejection
- IEC compliant

- Perform multiple testing functions
- Simple set-up and operation
- ➤ Reliable and accurate measurements in the laboratory or in the field







Model PM1A

Model PM5A3

Model PM10A3

Testing Applications

Model PM1A

- Insulation Resistance testing up to 200 $G\Omega$
- Pass / Fail test
- Low Resistance and Continuity measurement
- AC/DC Voltmeter up to 600 V True RMS
- Automatic Polarization Index

Model PM5A3

- Insulation Resistance testing up to 5 $T\Omega$
- AC/DC Voltmeter up to 1000 V True RMS
- Pass / Fail test
- Automated tests:
 Absorption Index
 Polarization Index
 Capacitance
 Leakage Current
 Step Voltage
 Ramp

Model PM10A3

- Insulation Resistance testing up to 10 $T\Omega$
- AC/DC Voltmeter up to 600 V True RMS
- Pass / Fail test
- Automated tests:
 Absorption Index
 Polarization Index
 Capacitance
 Leakage Current
 Step Voltage
 Ramp



















MODEL	PM1A	PM5A3	PM10A3
	250 V - 500 V - 1000 V	500 V – 1 kV - 2.5 kV – 5 kV 500 V – 1 kV - 5 kV – 10 kV directly, one button selectable	
TEST VOLTAGES	DC, negative	500 V to 5 kV 500 V to 10 kV in 25 V or 500 V steps	
		DC, negative	
Accuracy	-0 /+15% for resistances between 10 M Ω and open circuit	±3% of nominal test voltages on 10 GΩ	
RESISTANCE MEASUREMENT	10 kΩ to 200 GΩ	maximum 5 TΩ @ 5 kV	maximum 10 TΩ @ 10 kV
Accuracy	±5% of reading ±2 digits		
LEAKAGE CURRENT MEASUREMENT	maximum 1.5 mA	maximum 3 mA	maximum 1.5 mA
Accuracy	±0.3 mA	±(10% of reading + 3 digits)	
	LOW RESISTANCE & CONTINUITY MEASUREMENT 0.05 Ω to 150 Ω Accuracy $\pm 5\%$ of reading ± 2 digits Test Current up to 200 mA Continuity Indicator activates at R <5 Ω ± 0.5 Ω	CAPACITANCE 50 nF up to 10 μF @ 500 V 50 nF up to 5 μF @ 1000 V 30 nF up to 2 μF @ 2500 V 30 nF up to 1 μF @ 5000 V Accuracy ±10% of	MEASUREMENT 50 nF up to 10 µF @ 500 V 50 nF up to 5 µF @ 1000 V 30 nF up to 2 µF @ 2500 V 30 nF up to 1 µF @ 5000 V 30 nF up to 680 nF@ 10,000 V reading ± 3 digits
BUILT-IN TIMER	up to 15 minutes	up to 90 minutes	
METERING Accuracy Protection	0-600 V AC/DC ±3% of reading ±2 digits CAT. III - 600 V	15-1000 V AC/DC ±(5% of reading +3 digits) CAT. III - 600 V	
INPUT		Internal Rechargable Battery	
BASIC ACCURACY	R \leq 50 G Ω ±5% of reading ±2 digits R $>$ 50 G Ω ±10% of reading ±2 digits	$\pm 5\%$ of reading 1 MΩ to 1 TΩ @ 5 kV $\pm 5\%$ of reading 1 MΩ to 1 TΩ @ 10 kV $\pm 20\%$ of reading 1 TΩ to 5 TΩ @ 5 kV $\pm 20\%$ of reading 1 TΩ to 10 TΩ @ 10 kV (for lower test voltages, the upper limit will be reduced proportionally) $\pm 20\%$ of reading 10 kΩ to 100 kΩ, $\pm 10\%$ of reading 100 kΩ to 1 MΩ	
OPERATING TEMP. STORAGE TEMP. HUMIDITY	-5°C to 50°C -10°C to 60°C <95%, non-condensing	-5°C to 50°C -25°C to 65°C <95%, non-condensing	
UNIQUE FEATURES	Hand-held device Guard terminal High voltage and acoustic indicators Hold memory ISO 17025 Calibrated	Digital & bar graph reading 16,000 readings memory Automatic discharge of potential Remote control via Android device USB interface Software for data management Built-in printer Real time clock & calendar ISO 17025 Calibrated	
DIMENSIONS WEIGHT	4" L, 7.75" W, 1.75" H 102 mm L, 195 mm W, 46 mm H 1 lb (0.5 kgs)	13.6" L, 10.7" W, 6.3" H 345 mm L, 272 mm W, 159 mm H 9.48 lbs (4.3 kgs)	17.5" L, 14.2" W, 7.5" H 450 mm L, 360 mm W, 190 m H 13.88 lbs (6.3 kgs)
ACCESSORIES included	2 Measuring test leads, 1 Guard test lead, 1 Power supply Carrying bag, User guide	2 Measuring test leads, 1 Guard test lead, 1 AC adapter, 1 USB cable, Protective bag, User guide, Software	



HEADQUARTERS

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