

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 PM5A2



Model PM10A

Testing Applications

Model PM1A

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

Model PM5A2

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

Model PM10A

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



MODEL	PM1A	PM5A2	PM10A
TEST VOLTAGES	250 V - 500 V - 1000 V	500 V – 1 kV - 2.5 kV – 5 kV directly, one button selectable	500 V – 1 kV - 5 kV – 10 kV
	DC, negative	500 V to 5 kV in 25 V, 100 V or 500 V steps	500 V to 10 kV
		DC, negative	
Accuracy	-0 /+15% for resistances between 10 MΩ 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 ±5% of reading ±2 digits Test Current up to 200 mA Continuity Indicator activates at R < 5 Ω ±0.5 Ω	CAPACITANCE 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 Accuracy ±10% of reading ± 3 digits	
BUILT-IN TIMER	up to 15 minutes	up to 90 minutes	
METERING	0-600 V AC/DC	10-1000 V AC/DC	15-600 V AC/DC
Accuracy	±3% of reading ±2 digits	±(5% of reading +3 digits)	
Protection	CAT. III - 600 V	CAT. III - 600 V	
INPUT	Internal Rechargeable Battery		
BASIC ACCURACY	R ≤50 GΩ ±5% of reading ±2 digits R >50 GΩ ±10% of reading ±2 digits	±5% of reading 1 MΩ to 1 TΩ @ 5 kV ±20% of reading 1 TΩ to 5 TΩ @ 5 kV	±5% of reading 1 MΩ to 1 TΩ @ 10 kV ±20% of reading 1 TΩ to 10 TΩ @ 10 kV (for lower test voltages, the upper limit will be reduced proportionally) ±20% of reading 10 kΩ to 100 kΩ, ±10% of reading 100 kΩ to 1 MΩ
OPERATING TEMP.	-5°C to 50°C	-5°C to 50°C	
STORAGE TEMP.	-10°C to 60°C	-25°C to 65°C	
HUMIDITY	<95%, non-condensing	<95%, non-condensing	
UNIQUE FEATURES	Hand-held device Guard terminal High voltage and acoustic indicators Hold memory ISO 17025 Calibrated	Digital & bar graph reading 4000 readings memory Automatic discharge of potential USB interface Software for data management Built-in printer Real time clock & calendar ISO 17025 Calibrated	
DIMENSIONS	4" L, 7.75" W, 1.75" H 102 mm L, 195 mm W, 46 mm H	13" L, 11.5" W, 6" H 330 mm L, 295 mm W, 152 mm H	16" L, 13" W, 7" H 406 mm L, 330 mm W, 174 mm H
WEIGHT	1 lb (0.5 kgs)	10 lbs (4.3 kgs)	14 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	



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