

# AC, DC, or AC/DC Hipot/Megohmmeters

## Testing Applications

- Used for testing the insulation of switchgear, cables, motors, transformers, generators, and many other electrical devices.
- Models available with additional testing capabilities including:
  - Dielectric withstand testing
  - Leakage measurements
  - Leakage current flow through (or insulation resistance levels of) the ground insulation of the test object
- An excellent auxiliary device for detecting cable failures
- Use for predictive, preventive maintenance on all electrical apparatus



Model PAD56



Model PM15-2

## Models Available

- PAD56
  - PM5
  - PM15-2
  - PM20
- **Lightweight** and **ruggedly constructed** for years of field use
- Units feature **easy to read analog meters** and **user-friendly controls**



Model PM5



Model PM20

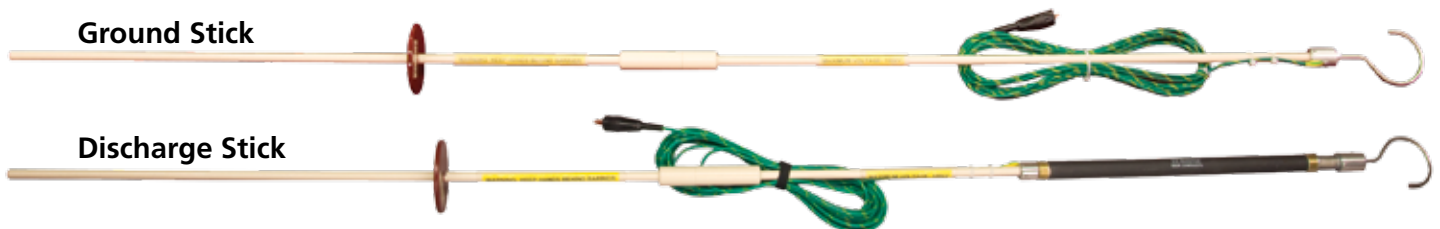


MODEL	<b>PAD56</b> AC and DC testing capability 5 kV AC / 6 kV DC		<b>PM15-2</b> DC testing capability 15 kV DC			
INSULATION RESISTANCE	Values up to 1,000,000 MΩ At test voltages of 2.5 kV or 5 kV DC (a scale factor for other test voltages is provided)		Values up to 3,000,000 MΩ At test voltages of 5 kV, 10 kV, 15 kV DC (a scale factor for other test voltages is provided)			
LEAKAGE CURRENT	.01-5,000 microamps DC .1-5 milliamps AC		.01-2,000 microamps DC			
INPUT	120 VAC, 60 Hz, single phase, .3 Amps or 230 VAC, 50/60 Hz, single phase, .15 Amps		120 VAC, 60 Hz, single phase, 1 Amps or 230 VAC, 50/60 Hz, single phase, .5 Amps			
OUTPUT	≈0-5 kV AC, 0-5 milliamps ≈0-6 kV DC, 0-5 milliamps Negative output, positive ground		≈0-15 kV DC, 0-2 milliamps Negative output, positive ground			
METERING	3½" analog meter Accuracy: ±2% of full scale		3½" analog meter Accuracy: ±2% of full scale			
VOLT-METER	2-ranges: 0-3/6 kV		2-ranges: 0-7.5/15 kV			
CURRENT METER	0-5 milliamps AC 0-.5/5/50/500/5000 microamps DC		0-.5/5/50/500/5000 microamps DC			
RESISTANCE MΩ		@ 2500 V	@ 5,000 V	@ 5,000 V	@ 10,000 V	@ 15,000 V
		.5-50	1-100	1-100	2-200	3-300
		5-500	10-1,000	10-1,000	20-2,000	30-3,000
		50-5,000	100-10,000	100-10,000	200-20,000	300-30,000
		500-50,000	1,000-100,000	1,000-100,000	2,000-200,000	3,000-300,000
	5,000-500,000	10,000-1,000,000	10,000-1,000,000	20,000-2,000,000	30,000-3,000,000	
SAFETY & DESIGN FEATURES	<ul style="list-style-type: none"> <li>Adjustable overcurrent trip point</li> <li>Zero start interlock</li> <li>Direct megohm readings</li> </ul>		<ul style="list-style-type: none"> <li>Guarded measurement circuit</li> <li>Surge and transient protection</li> <li>Internal short circuit protection</li> </ul>		<ul style="list-style-type: none"> <li>Multi-range current and voltage measurement</li> <li>Guard circuit for stray leakage current bypass</li> <li>Adjustable output current limit</li> </ul>	
UNIQUE FEATURES	<ul style="list-style-type: none"> <li>Internal discharge device</li> </ul>		<ul style="list-style-type: none"> <li>Low ripple 0.4% peak-peak at full output</li> </ul>			
CABLES INCLUDED	Input	10' (3 m) Standard modular 3-wire cord mating to fused input module				
	High Voltage Output	10' (3 m) attached shielded cable with clip and insulator (removable on model PAD10-25)				
	Return Lead	10' (3 m) red lead with insulated clip				
	Ground Lead	10' (3 m) green lead with insulated clip				

MODEL	<b>PM5</b> DC testing capability 5 kV DC	<b>PM20</b> DC testing capability 20 kV DC
INSULATION RESISTANCE	Values up to 10,000,000 MΩ At test voltages of 0.5 kV, 1 kV, 2.5 kV, 5 kV DC (a scale factor for other test voltages is provided)	Values up to 4,000,000 MΩ At test voltages of 5 kV, 10 kV, 15 kV, 20 kV DC (a scale factor for other test voltages is provided)
INPUT	Internal Rechargeable Battery or Input Power Cord 100-240 VAC, 50/60 Hz	Internal Rechargeable Battery or Input Power Cord 100-240 VAC, 50/60 Hz
OUTPUT	0.5 kV, 1 kV, 2.5 kV, 5 kV DC	5 kV, 10 kV, 15 kV, 20 kV DC
METERING	4" analog meter Accuracy: ±2% of full scale	4" analog meter Accuracy: ±2% of full scale
CURRENT	Short circuit 1 mA ±2%	Short circuit 500 µA ±5%
INTERNAL CURRENT LIMITING RESISTANCE	500 kΩ @ 500 V	10 MΩ @ 5 kV
	1 MΩ @ 1 kV	20 MΩ @ 10 kV
	2.5 MΩ @ 2.5 kV	30 MΩ @ 15 kV
	5 MΩ @ 5 kV	40 MΩ @ 20 kV
UNIQUE FEATURES	<ul style="list-style-type: none"> <li>• Guard terminal</li> <li>• Rechargeable battery</li> <li>• Multiple scales for greater accuracy</li> </ul>	
CABLES INCLUDED	2 Measuring test leads 6' (1.8 m) 1 Guard test lead 1 Charging power cord	

### Recommended Accessories (refer to brochure no. 40402 for all sticks offered)

- Model GS100-2 Ground Stick, 2-piece design, with a 25' (8 m) ground lead
- Model DS100-2 Discharge Stick (100 kV, 100 kΩ, 50 kJ), 2-piece design, with a 25' (8 m) ground lead



## Dimensions & Weight

Model	PAD56	PM15-2	PM5	PM20
L	18" (457 mm)	18" (457 mm)	11" (279 mm)	15" (381 mm)
W	11" (279 mm)	11" (279 mm)	10" (254 mm)	12" (305 mm)
H	11.5" (292 mm)	11.5" (292 mm)	5" (127 mm)	7" (178 mm)
WT	23 lbs (10 kgs)	16 lbs (7 kgs)	9 lbs (4 kgs)	22 lbs (10 kgs)

## Shipping Size

Model	PAD56	PM15-2	PM5	PM20
L	21" (533 mm)	21" (533 mm)	21" (533 mm)	21" (533 mm)
W	15" (381 mm)	15" (381 mm)	15" (381 mm)	15" (381 mm)
H	16" (406 mm)	16" (406 mm)	16" (406 mm)	16" (406 mm)
WT	26 lbs (12 kgs)	20 lbs (9 kgs)	15 lbs (6.8 kgs)	30 lbs (13.6 kgs)



**PHENIX**  
TECHNOLOGIES

### WORLD HEADQUARTERS

#### Phenix Technologies, Inc.

75 Speicher Drive  
Accident, MD 21520 USA  
Ph: +1.301.746.8118  
Fx: +1.301.895.5570  
Info@phenixtech.com

### BRANCH OFFICES

#### Phenix Systems AG

Riehenstrasse 62A, 4058 Basel, Switzerland  
Ph: +41.61.383.2770, Info@phenixsystems.com

#### Phenix Asia

Zhong Cheng Rd, Sec 1, No 177, 2F, Taipei 11148 Taiwan  
Ph: +886.2.2835.9738, Fx: +886.2.2835.9879, Info@phenixasia.com

ISO  
9001:2008  
Compliant

