

# 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

## Models Available

- PAD10-25
- PAD56
- PM15-2
- PM5
- PM20

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



Model PAD10-25



Model PAD56



Model PM15-2



Model PM5

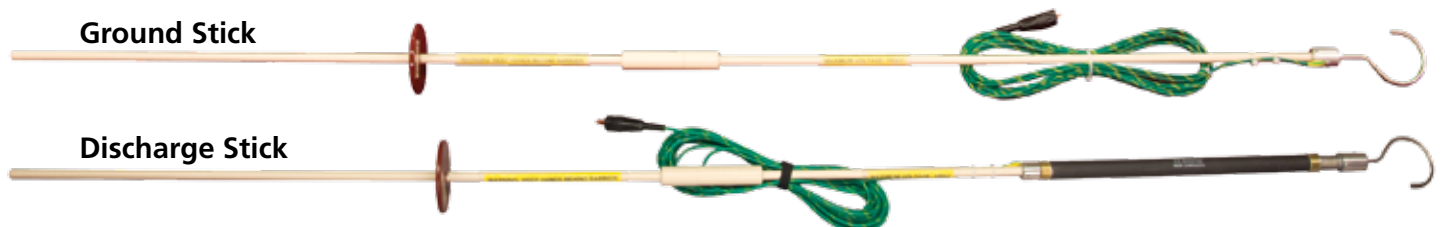


MODEL	<b>PAD10-25</b> AC and DC testing capability 10 kV AC / 25 kV DC		<b>PAD56</b> AC and DC testing capability 5 kV AC / 6 kV DC		<b>PM15-2</b> DC testing capability 15 kV DC	
INSULATION RESISTANCE	Values up to 150,000 MΩ At test voltages of 0.5 kV, 2.5 kV, 5 kV, 15 kV DC (a scale factor for other test voltages is provided)		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	.02-5,000 microamps DC .1-10 milliamps AC		.01-5,000 microamps DC .1-5 milliamps AC		.01-2,000 microamps DC	
INPUT	120 VAC, 60 Hz, single phase, 1.2 Amps or 230 VAC, 50/60 Hz, single phase, .6 Amps		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	≈0-10 kV AC, 0-10 milliamps ≈0-25 kV DC, 0-5 milliamps Negative output, positive ground		≈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	4½" analog meter Accuracy: ±2% of full scale		3½" analog meter Accuracy: ±2% of full scale		3½" analog meter Accuracy: ±2% of full scale	
VOLT-METER	3-ranges: 0-5/10/25 kV		2-ranges: 0-3/6 kV		2-ranges: 0-7.5/15 kV	
CURRENT METER	0-1/10 milliamps AC 0-10/100/1000/5000 microamps DC		0-5 milliamps AC 0-.5/5/50/500/5000 microamps DC		0-.5/5/50/500/5000 microamps DC	
RESISTANCE MΩ	@ 500 V	@ 2,500 V	@ 2500 V	@ 5,000 V	@ 5,000 V	@ 10,000 V
	.05-5	.25-25	.5-50	1-100	1-100	2-200
	.5-50	2.5-250	5-500	10-1,000	10-1,000	20-2,000
	5-500	25-2,500	50-5,000	100-10,000	100-10,000	200-20,000
	50-5,000	250-25,000	500-50,000	1,000-100,000	1,000-100,000	2,000-200,000
			5,000-500,000	10,000-1,000,000	10,000-1,000,000	20,000-2,000,000
	@ 5,000 V	@ 15,000 V			@ 15,000 V	
	.5-50	1.5-150			3-300	
	5-500	15-1,500			30-3,000	
	50-5,000	150-15,000			300-30,000	
500-50,000	1,500-150,000			3,000-300,000		
				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> <li>External interlock provision</li> </ul>		<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	PAD10-25	PAD56	PM15-2	PM5	PM20
L	16.5" (419 mm)	18" (457 mm)	18" (457 mm)	11" (279 mm)	15" (381 mm)
W	15.25" (388 mm)	11" (279 mm)	11" (279 mm)	10" (254 mm)	12" (305 mm)
H	11.25" (286 mm)	11.5" (292 mm)	11.5" (292 mm)	5" (127 mm)	7" (178 mm)
WT	38 lbs (17 kgs)	23 lbs (10 kgs)	16 lbs (7 kgs)	9 lbs (4 kgs)	22 lbs (10 kgs)

## Shipping Size

Model	PAD10-25	PAD56	PM15-2	PM5	PM20
L	21" (533 mm)	21" (533 mm)	21" (533 mm)	21" (533 mm)	21" (533 mm)
W	21" (533 mm)	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)	16" (406 mm)
WT	45 lbs (20 kgs)	26 lbs (12 kgs)	20 lbs (9 kgs)	15 lbs (6.8 kgs)	30 lbs (13.6 kgs)



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