

Insulation Testers (Megohmmeters)

These insulation testers are intended primarily for periodic testing of industrial motors, transformers, electrical wiring, and cable insulation for signs of deterioration. Low readings may indicate impending failure and permit replacement during routine maintenance rather than risking production downtime. Also useful for safety testing of TV sets and appliances to assure no hazardous leakage current. The voltage and resistance ratings for insulation testing are often specified for the product to be tested.



300



305

Models 300, 305

- Test insulation resistance
- Measure AC voltage to 600V
- Battery powered
- 1000V, 2000M Ω (Model 300)
- 500V, 1000M Ω (Model 305)

Models 307, 308

- Selectable 250V, 500V, or 1000V insulation test
- Low resistance test
- Extra rugged integral carrying case
- Live circuit indicator warns of safety hazard
- Push to test

Specifications

	300	305	307	308	models
Type	Analog	Analog	Analog	Digital	
Output Voltage	1000VDC	500VDC	1000VDC	1000VDC	
Maximum current	250 μ A	500 μ A	2mA	1.2mA	
Resistance Range	1M Ω - 2000M Ω	0.2M Ω - 1000 M Ω	1000V 0-200M Ω 500V 0-100M Ω 250V 0-50M Ω	0-2000M Ω 0-2000M Ω 0-2000M Ω	
Center Scale	50M Ω	20M Ω	1M Ω , 2M Ω , 4M Ω	Does not apply	
Accuracy	Infinity: within 1% of scale length Zero: within 1% of scale length All points \pm 5% of reading			250V 500V 1000V	0-100 Ω \pm (1.5%+3D) \pm (1.5%+2D) \pm (1.5%+2D) 100-200M Ω \pm (2%+5D) \pm (1.5%+2D) \pm (1.5%+2D) 200-1700M Ω \pm (3%+7D) \pm (3%+4D) \pm (3%+3D) 1700-2000M Ω \pm (4%+8D) \pm (4%+6D) \pm (4%+5D)
AC Voltage Test	Range: 0 to 600 VDC Frequency Response: 10Hz to 100kHz Accuracy: \pm 4% of full scale				Live Circuit Indicator
Low resistance Test	Does not apply		0-50 Ω	0-200 Ω	
Accuracy	Does not apply		\pm 5% of reading	\pm (1.5% + 2 digits)	
General Specifications	Power Requirements: Six "AA" cells (supplied) Battery Life: 4 hours typical alkaline		Eight "AA" cells (supplied) 12 hours continuous 10 hours continuous w/alkaline		
Operating Temperature	32° to 122°F (0° to 50°C), \leq 70% RH				
Storage Temperature	-4° to 140°F (-20° to 60°C), < 80% RH (with batteries removed)				
Dimensions	6.66 x 4.18 x 1.42" (169 x 106 x 36mm)		7 x 8.5 x 3.5" (180 x 220 x 90mm)		
Weight	15oz. (430g) w/batteries		2.6 lb (925g) with batteries		

Accessories

One Year Warranty

Supplied: Batteries, Carrying Case, Test Leads, Instruction Manual

Batteries, Integral Carrying Case w/strap, Test Lead, Instruction Manual