

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, 2000MΩ (Model 300)
- 500V, 1000MΩ (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	250μA	500μA	2mA	1.2mA	
Resistance Range	1MΩ - 2000MΩ	0.2MΩ - 1000 MΩ	1000V 0-200MΩ 500V 0-100MΩ 250V 0-50MΩ	0-2000MΩ 0-2000MΩ 0-2000MΩ	
Center Scale	50MΩ	20MΩ	1MΩ, 2MΩ, 4MΩ	Does not apply	
Accuracy		Infinity: within 1% of scale length Zero: within 1% of scale length All points ±5% of reading		250V 500V 1000V	0-100Ω ±(1.5%+3D) ±(1.5%+2D) ±(1.5%+2D) 100-200MΩ ±(2%+5D) ±(1.5%+2D) ±(1.5%+2D) 200-1700MΩ ±(3%+7D) ±(3%+4D) ±(3%+3D) 1700-2000MΩ ±(4%+8D) ±(4%+6D) ±(4%+5D)
AC Voltage Test					
Range	0 to 600 VDC				Live Circuit Indicator
Frequency Response	10Hz to 100kHz				
Accuracy	±4% of full scale				
Low resistance Test	Does not apply		0-50Ω	0-200Ω	
Accuracy	Does not apply		±5% of reading	±(1.5% + 2 digits)	
General Specifications					
Power Requirements	Six "AA" cells (supplied)				Eight "AA" cells (supplied)
Battery Life	4 hours typical alkaline		12 hours continuous		10 hours continuous w/alkaline
Operating Temperature	32° to 122°F (0° to 50°C), ≤ 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
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