5- and 15-kV Megohmmeters



- Continuously variable test voltage
- Rugged field construction
- Circuit-breaker protection

DESCRIPTION

The 5- and 15-kV Megohm-meters are high-voltage, line-operated instruments. They provide a continuously variable test voltage for highly sensitive insulation-resistance measurements of all types of electrical equipment and power cable.

The instruments are designed to withstand harsh field conditions, and feature tough, impact-resistance casing, removable lids and adjustable carrying straps. For complete portability, there is ample room in each case to store cables and the instruction manual.

APPLICATIONS

The units are suitable for dielectric absorption and step-voltage testing. Two models are available:

The 5-kV Megohmmeter measures up to 100,000 M Ω ; provides output from 250 volts to 5 kV, with direct reading up to 50,000 M Ω at 2.5 kV.

The 15-kV Megohmmeter provides direct reading measurements up to 100,000 M Ω at 5 kV and up to 200,000 M Ω at 10 kV, with a multiplying factor for all other voltages up to 15 kV.

The 15-kV model also features an internal voltage stabilizer that may be activated for improved measurement under extreme field conditions. Separate on/off controls are provided for power and high voltage, and a red light indicates when high voltage is on.

FEATURES AND BENEFITS

- \blacksquare Provides 2% kV and M Ω accuracyGuard terminal to eliminate surface leakage current from the measurement
- Zero-start, high-voltage interlock
- Shielded, high-voltage output cable permanently connected to the instrument
- Circuit-breaker protection
- Redundant grounding connections
- Easy-to-follow, color-coded meter scales
- Analog metering for monitoring of variable measurements
- Rugged field construction



SPECIFICATIONS

		DC Test	Megohm Range Multiplier					
Cat. No.	Model	Voltage	x1	x10	x100	x1000	Dimensions	Weight
		2.5 kV dc	0.5 to 50	5 to 500	50 to 5000	500 to 50,000	10 H x 10.2 W x 14 D in.	20.5 lb
210400	5-kV	5 kV dc	1 to 100	10 to 1000	100 to 10,000	1000 to 100,000	254 H x 260 W x 355 D mm	9.3 kg
		250 V to 5 kV	Mι	ıltiply $M\Omega$ by	factor indicated	in green		
		7.5 kV dc	1.5 to 150	15 to 1500	150 to 15,000	1500 to 150,000	12.5 H x 11.5 W x 20.2 D in.	35 lb
210415	15-kV	15 kV dc	3 to 300	30 to 3000	300 to 30,000	3000 to 300,000	317 H x 292 W x 514 D mm	15.9 kg
		500 V to 15 kV	Actual kV 10 x Range at 10 kV					

5-kV Model, Cat. No. 210400

Input Voltage 120 Vac, 60 Hz

Test Voltage

0 to 5 kVdc, negative with respect to ground

Output Current
5 mA continuous
Short Circuit Curr

Short-Circuit Current

12 mA max. **Instrumentation**

Kilovoltmeter: 4.5-in. (114-mm) taut band

Three Color-Coded Scales Red: 0 to 2.5 kV Black: 0 to 5 kV Green: 0 to 1 reference

Accuracy: ±2% full scale

Megohmmeter

4.5-in. (114-mm) taut band Two Color-Coded Scales Red: 0.5 to 50 M Ω Black: 1 to 100 M Ω

Accuracy: ±0.031 in. (0.08 cm) at any marking

Operating Temperature Range 0 to 122° F (-17.7 to +50° C)

15-kV Model, Cat. No. 210415

Input Voltage 120 Vac, 60 Hz

Test Voltage

0 to 15 kVdc, negative with respect to ground

Output Current

2 mA continuous (stabilizer out) 50 μA continuous (at 15 kV, stabilizer in)

Short-Circuit Current

12 mA max.

Instrumentation

Kilovoltmeter: 4.5-in. (114-mm) taut band

Three Color-Coded Scales Red: 0 to 7.5 kV Black: 0 to 15 kV Green: 0 to 1.5 reference

Accuracy: ±2% full scale
Megohmmeter

INFORMATION

4.5-in. (114-mm) taut band Two Color-Coded Scales Red: 1 to 100 M Ω Black: 2 to 200 M Ω

Accuracy: ±0.031 in. (0.08 cm) at any marking

Operating Temperature Range 0 to 122° F (-17.7 to +50° C)

	ORDERING
Item (Qty) 5 kV Megohmmeter	Cat No. 210400
15 kV Megohmmeter	210415
Included Accessories	
Ground connection cable, 10 ft [3 m]	4702
Test record card, universal	210954
Power cord, for Cat. No. 210415	17032
Instruction manual for 5-kV model	AVTM21-40JA
Instruction manual for 15-kV model	AVTM21-415JA

Item (Qty)	Cat. No.		
Optional Accessories			
Test record card, 0 to 1000 GΩ	210959		
"A Stitch in Time" manual	AVTM21-P8B		

SALES OFFICE

Megger 2621 Van Buren AVenue Norristown, PA 19403 USA T 866-254-0962

E VFCustomerSupport@megger.com

MEGOHMMETERS_DS_EN_V11a

www.megger.com ISO 9001:2008

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