

>368,688789 12437,23-2933 977 56-203 88849<
>163,65546 67818,7-23967 911 56-203 88861<
>198,65546 65612,23-2829 955 56-203 46549<
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>124,634546 78672,23-7779 683 56-203 88349<
>458,11142 83417,73-2037 876 56-203 83339<
>145,523286 64466,22-2689 966 56-203 88849<
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DATA SHEET

MODEL 6010-100



**Automated Resistance System
100 Amp**

- 10uA to 100 Amps
- System Accuracy to <.2 PPM
- 1mΩ to 13kΩ
- Linearity 0.01 PPM
- IEEE488
- Automatic Measurements to 30A
- Completely “Turn-Key” System
- All Interconnecting Cables

MODEL INFORMATION

The model 6010-100 is a completely “turn-key” system for measurement ratios of 1:1000 (1mΩ directly against 1Ω) up to 13:1 (1Ω to 13 kΩ). This resistance measurement system offers a totally automated solution for calibrating standard resistors and current shunts up to 100A. The system is capable of determining temperature and power characteristics of the unit under test to very low uncertainties.

This system combines the newest current comparator technology, multiplexing capability and a 100 Amp DC Linear Source, for obtaining the best uncertainties commercially available. Standard 19” equipment racks, IEEE488 interface and windows operating software are included as a complete system. Comparisons of .001 Ohm directly to a 1 Ohm standard is accomplished quickly and efficiently, while taking many data points for

determining factors normally associated with high current, resistance measurements.

The system is comprised of the model 6010 Resistance Bridge, the model 6011 100A Range Extender, The model 6100 100A Linear Power Supply and a 30A Four Terminal Matrix Scanner, model 4220A/30 housed in a 4 or 6 foot rack with smoked glass door. An optional temperature measurement system, option 01, for automatically measuring the temperature of the shunt under power is also available.

Combined with the Measurements International model 9301JW series of oil baths, alpha and beta calculations can be performed automatically on resistors under test. All data can be exported directly to Excel for various test patterns or mainframe applications. External atmospheric pressure, humidity and temperature



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indicators are optional and the entire system can be enclosed in a 4 or 6 ft. rack. Resistor baths (oil or air), instrument controllers, printers, system software, IEEE

interface, installation and training are all available for complete system packages.

Specifications:

Ratio	Models	Accuracy	Max Current	Current Source
10:1	6010	<0.05 ppm	150 mA	Internal
1:1	6010	<0.1 ppm	150 mA	Internal
1:10	6010/6011	<0.2 ppm	1.0 A	6100A
1:100	6010/6011	<0.2 ppm	10 A	6100A
1:1,000	6010/6011	<0.2 ppm	100 A	6100A
Product Details				
Operating Environment			18 to 34°C, 10 to 80% RH	
Warranty			1 Year Parts & Labor	
Dimensions (W x H x D)			600 x 2072 x 875 mm	
Weight			140 kg	
Shipping Weight			160 kg	
Operating Power			100, 120, 220, 240V - 50/60Hz	

MI-Canada

Measurements International Ltd.
 PO Box 2359, 118 Pirelli Drive
 Prescott, Ontario, Canada K0E 1T0

Phone: (613) 925-5934

Toll-Free: 1-800-324-4988
 Fax: (613) 925-1195
 Email: sales@mintl.com

MI-USA

Measurements International Inc.
 812 Proctor Ave.
 Ogdensburg, NY, USA 13669

Phone: (315) 393-1323

Toll Free: 1-800-324-4988
 Fax: (315) 393-1452
 Email: sales@mintl.com

MI-Europe

Druzstevni 845, 686 05 Uherske Hradiste

Czech Republic

Phone: (420) 572 572 801

Fax: (420) 572 572 358
 Email: mieurope@mintl.com

www.mintl.com

