Measurements International

Metrology is Our Science, Accuracy is Our Business™

6020HRX RATIO RESISTANCE BRIDGE

Featuring

- Range 0.001 Ω to 1 GΩ
- Best Accuracy < 0.02 ppm
- Improved Accuracy of 6020HR Version
- NEW Micro-Controller for improved speed and functionality
- NEW capacitive touchscreen with enhanced design and easy-to-use operation
- Maximum Ratio 100:1
- Operates at voltages up to 1000 V
- NEW Zero Filter
- NEW 1 kHz Sample Rate
- NEW Selectable Settle Time & Measurement Time

Feature	Benefit
An exceptional range offering full measurement solution	Can measure from 0.1 Ω to 1 GΩ
Fast Reversal Rates	Reversal rates as fast as 4 seconds without affecting Bridge accuracy.
Quick Measure Mode	First Measurement < 30 seconds
New Micro-Controller	Improved speed, functionality for the most efficient unit operation.
National and Primary Lab Continuity	Technology used by leading NMI's, Energy, Defence, Aeronautical and Space organizations.
Up to 10,000 Amps	Can be expanded for shunt calibrations and DCCT's.

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Specifications: Rev 0

Resistance Specification 6020HRX			
	R_S/R_X Ratio		
RS Nominal Value	1:1	1:10	1:100
1 Ω	0.02 ppm	0.03 ppm	0.1 ppm
10 Ω	0.02 ppm	0.03 ppm	0.1 ppm
100 Ω	0.02 ppm	0.03 ppm	0.3 ppm
1 kΩ	0.02 ppm	0.03 ppm	0.8 ppm
10 kΩ	0.1 ppm	0.1 ppm	2.5 ppm
100 kΩ	0.5 ppm	0.3 ppm	5 ppm
1 MΩ	1 ppm	2 ppm	10 ppm
10 MΩ	2 ppm	5 ppm	
100 MΩ	4 ppm	5 ppm	

** RS 0.1 Ω: RX 1.0 Ω < 0.2 ppm * < 0.1 see MI Series of Range Extenders * 0.001:1, 0.01:1 with Range Extender*

Resistance Ratio Range	0.001:1, 0:01:1, 0.1:1 1:1, 10:1, 100:1	**Test Voltage Range**	1 V to 1 kV
Linearity	± 0.01 ppm	**Current Reversal**	4 to 1000 seconds
Resolution	± 0.001 ppm of full-scale	**Time to Stated Accuracy (warm-up)**	< 1 minute
Input Channels	2 (expandable to 40 with 4220A Matrix Scanner)	**Temperature Coefficient**	± 0.01 ppm/°C
Configuration	4-Terminal	**Mode of Operation**	Front Panel control or automated (IEEE-488)
Test Current Range	1 µA to 150 mA	**Operating Environment**	15 °C to 34 °C, 10 % to 90 % RH non-condensing
Extended Test Current Option	150 mA to 3000 A	**Warranty**	2 year Parts and Labour

Dimensions (L × W × H):
483 x 565 x 178 (mm)

Weight:
19 kg

Shipping Weight:
23 kg

Mains Power:
100,120, 220, 240 V_{ac} — 50/60 Hz

Corporate Headquarters
Measurements International
PO Box 2359, 118 Commerce Drive

Phone: 613-925-5934
Fax: 613-925-1195
Email: sales@mintl.

Toll Free: 1-800-324-4988

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