



## 6020HRX RATIO RESISTANCE BRIDGE



### Featuring

- ▶ Range 0.001  $\Omega$  to 1 G $\Omega$
- ▶ 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 0.001 $\Omega$ to 1 G $\Omega$
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.



# Measurements International

Metrology is Our Science, Accuracy is Our Business™

## 6020HRX RATIO RESISTANCE BRIDGE

### Specifications: Rev 0

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

\* 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

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

