



9312A MULTIPLE VALUE DC CURRENT SHUNT



Featuring

- ▶ 7 Current Ranges
- ▶ $5\mu\Omega$ to $500\mu\Omega$
- ▶ Accuracy's to $<0.02\%$
- ▶ Improved TC
- ▶ Rack or Bench top Use

Overview

The Model 9312A Multiple Value DC Current Shunt is the latest development from Measurements International's series of DC resistors and shunts. After many years of research in low value resistance materials, the Model 9312A ensures that you get the best performance on the market today. Combined with MI's experience in automated measurements at high current levels, accuracies approaching 0.02% can be achieved at full power from $5\mu\Omega$ to $500\mu\Omega$.

The process selected in treating the element ensures the best performance without introducing self-heating errors with improved temperature coefficients.

The elements are supported on an insulating base for mechanical stability and covered with perforated metal to allow for proper cooling.

Special consideration has been given to the process of curing the elements and reducing the overall temperature coefficient. Optimum surface area dissipates the maximum specified power. The Model 9312A may be used as a Current Shunt or as a set of Standard Resistors for calibrating high current, low resistance micro ohm meters. The Model 9312A is used in an air environment.

Feature	Benefit
7 Current Ranges	Eliminates the need for multiple shunts
Dial Selector Switch	Reduces setup and tear down time
Ventilated Case	Does not need a fan for cooling
Excellent Accuracy	< 200 ppm
Improved TC < 3 ppm/°C	Less time waiting for stabilization



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Specifications: Rev 1

Selected Resistance	Max Current	Nominal Current	Accuracy
5 $\mu\Omega$	0.1	600	$\pm 0.02\%$
10 $\mu\Omega$	0.1	600	$\pm 0.02\%$
20 $\mu\Omega$	0.1	600	$\pm 0.02\%$
50 $\mu\Omega$	0.1	300	$\pm 0.02\%$
100 $\mu\Omega$	0.1	300	$\pm 0.02\%$
200 $\mu\Omega$	0.1	300	$\pm 0.02\%$
500 $\mu\Omega$	0.1	300	$\pm 0.02\%$
Accuracy		Calibrated at 23°C - Traceable to NRC and NIST	
Stability		1 Year - 100 ppm	
Temp Coefficient		< 8 ppm/°C	
Power Coefficient		< 10 ppm/watt in Air	
Operating		18 to 34°C, 10 to 80% RH	
Warranty		1 Year Parts & Labor	

Dimensions (W × D × H):
480 × 220 × 300 (mm)

Operating Power:
120, 240V - 50/60 Hz

How to Order:
Model 9312A
Multiple Value DC Current Shunt

Corporate Headquarters
Measurements International
PO Box 2359, 118 Commerce Drive
Prescott, Ontario, Canada K0E 1T0
Phone: 613-925-5934
Fax: 613-925-1195
Email: sales@mintl.com
Toll Free: 1-800-324-4988

Worldwide Offices
MI-USA
Phone: 407-706-0328
Email: sales@mintl.com

MI-China
Phone: +(86) 10-64459890
Email: sales@mintl.com

MI-Europe
Phone: +(420) 731-440-663
Email: sales@mintl.com

MI-Japan
Phone: +(81) 72 39 64 660
Email: kaz@mijpn.com

MI-India
Phone: +(91) 98 10 134 932
Email: sales@MILLP.co.in

