

MODEL 9211A

NEW AND IMPROVED - MULTI-TAP, 300A PRECISION DC CURRENT SHUNT

World's Best Selling Precision Multiple Value DC Current Shunt



FEATURES

- Accuracies as Low as $\pm 0.01\%$!
- Now with New Style Case with Highly Improved Air Flow through the Elements!
- Improved Current Connections for 100 A and 300 A Leads!
- Now Featuring Case Markings in both Resistance and Current!
- For Rack or Bench Mounting!
- Precision DC Current Measurement from 10 μA to 300 Amperes Full Scale!
- Compact Design Now with Handles!
- Temperature Coefficient $< 10 \text{ ppm}/^\circ\text{C}$!



GUILDLINE INSTRUMENTS 9211A PRECISION MULTI-TAP CURRENT SHUNT has been improved in terms of thermal management and top panel markings. The previous "B" version is now available as the "A" version. There are no changes to the product's design, specifications, or performance. This is strictly a naming update to ensure continued alignment with customer requirements.

The 9211A is a four-terminal precision shunt designed to measure current in nine ranges from 10 μA to 300 A. Voltage output at full rated current on all ranges is 0.1 V. The A is available in either a bench version or a rack mount version.

THE 9211A IS A CONVENIENT AND EXCELLENT SOLUTION FOR WIDE RANGE OF VALUES - HIGH ACCURACY DC CURRENT CALIBRATION UP TO 300 AMPERES.

New style cable connections are accessible on the front panel allowing for quick, secure and repeatable lead changes. The 9211A bench model now comes with side handles and can easily be converted to a rack mount unit. Improved markings allow operators to easily determine current ranges and ohmic values. And a new style case replaces the old formic case. This new case is designed to vastly improve air flow across the resistive elements.

Separate current and potential terminals are provided. Range selection is made by means of two brass plugs inserted in pairs on the top panel.

The shunt resistors are mounted in air to minimize size and weight while minimizing self-heating effects. The range resistors up to 10 A are made of custom alloy wires and are non-inductively wound up to the 1 A range. These elements may be subjected to 140 % of rated current without damage. The 100 A and 300 A resistors are made of custom alloy plates and may be subjected to 110% of rated current without damage.

A 17025 Accredited report of calibration giving the measured values at 23 $^\circ\text{C}$ is provided with every 9211A sold at no extra charge.

Model 9211A Multi-Tap Precision DC Current Shunt

9211A SPECIFICATIONS				
Resistance (Ω)	Rated Current (A)	1 Year Accuracy ^{1,2} (%)	Temperature Coefficient (ppm/°C)	Power Dissipation at Rated Current (mW)
10,000 ³	0.00001	± 0.01	5	0.001
1,000	0.0001	± 0.01	5	0.01
100	0.001	± 0.01	5	0.1
10	0.01	± 0.01	5	1
1	0.1	± 0.01	5	10
0.1	1	± 0.01	10	100
0.01	10	± 0.01	10	1000
0.001	100	± 0.05	30	10 W
0.000 333 333	300	± 0.1	30	30 W

Note 1: Calibrated in air at 23 °C traceable to the SI unit of electric resistance. Calibration uncertainties expanded and expressed at the 95 % level of confidence. An ISO/IEC 17025 accredited certificate and report of calibration stating the calibrated value and estimated uncertainty is provided with each resistor.

Note 2: A traceable report of calibration stating the measured values and expanded uncertainty is provided with each unit at test currents of 1/10 of rated current and full rated current to a maximum of 100 A and a minimum of 0.1 mA.

Note 3: The 10,000 Ω resistor can be operated with currents up to 0.0001 A (i.e. 0.1 A).

GENERAL SPECIFICATIONS				
Environmental	Temperature		Humidity	
Operating	5 °C to 38 °C	41 °F to 100 °F	<70 % RH non-condensing	
Storage	-20 °C to 55 °C	-4 °F to 131 °F	<90 % RH non-condensing	
Exterior Dimension (Bench)	222 mm (H)	513 mm (W)	254 mm (D)	13.6 kg
	8.7" (H)	20.2" (W)	10" (D)	30 lbs
Exterior Dimension (Rack Mount)	222 mm (H)	482 mm (W)	183 mm (D)	13.6 kg
	8.7" (H)	19" (W)	7.2" (D)	30 lbs

Warranty

Since 1957 Guildline has provided innovation in engineering and design and solutions that satisfy real measurement issues. Guildline's products are made with outstanding craftsmanship and we back it up with an industry leading **2-Year Warranty** and an **ISO/IEC 17025 Accredited Calibration**! We have the widest range of resistance accredited, from 1 μΩ all the way to 10 PΩ.

ORDERING INFORMATION	
9211A	DC Current Shunt Bench Style
9211A/R	DC Current Shunt, Rack Mount
/TM	Technical Manual (Included)
/RC	Report of Calibration Included
/CC	Calibration Certificate Included
9211A Series Options	
92301	20 A, 1 m Lead Set
92302	100 A, 1 m Lead Set includes Low Thermal Leads
92303	300 A, 1 m Lead Set Includes Low Thermal Leads
SCW/18-30	30 m Shielded, Copper, Low Thermal Wire 18 Gauge
Many other leads and accessories to include system integration and IEEE are available.	

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