Standard Resistance Calibration Standards

SRX1 Series

Economical high performance resistance standards.

- Very stable
- Excellent TC
- Rugged
- Wide range of values
- Optional values available
- Optional transit case

SRX1 SERIES

Designed for use as a reference or working standard in industrial, research, and educational laboratories.

SRX1 Series Resistance Standard

SPECIFICATIONS

Model SR X1-	Nominal Value (?)	Adjustment to Nominal (ppm)	Stability 1 year (ppm)	Max Voltage (V)
1	1	<20	<10	>0.32
10	10	<20	<10	>1
100	100	<15	<7	>2
1k	1k	<10	<7	>10
10k	10k	<15	<5	>30
100k	100k	<15	<7	>100
1M	1M	<22	<10	>100

GENERAL

Test Conditions: Four-terminal Kelvin measurements, low power, at 23°C; two-terminal for 1 MΩ. Initial calibration data traceable to SI is provided.

Terminals: Four 5-way binding posts for 4-terminal measurement for 100 kΩ and under; two binding posts for 1 MΩ and over. The binding posts are constructed of tellurium copper for low thermal emf and low resistance. A case ground terminal is also provided.

Operating Conditions: 18-28°C; 80% RH

Maximum Applied Power : As indicated in table for Max. Voltage above.

Negligible change in resistance value will result from applying voltages up to the maximum voltage as indicated in the table above.

Application of up to 5 W is allowed; change in resistance value from the max voltage up to a total of 5 W will be <300ppm.

Multiple units in single housing available.

Change Resulting from Power Cycling: Value of standard will remain within specifications after unlimited applications of power cycles of up to 5 W.

Resistance Change with Temperature: Over the range of +18°C to + 28°C, the Standard Resistors shall not change more than 3 ppm from their reported calibration value.

Change Resulting from Temperature Cycling: The standard resistors shall have a temperature cycling change of 2 ppm or less for a cycle from 23°C to 0°C to 23°C and for a temperature cycle from 23°C to 40°C to 23°C.

Non Operating Storage Conditions: 18-28°C; RH not controlled.

Dimensions: 8.6 cm H x 10.2 cm W x 12.7 cm D (3.4" x 4.0" x 5")

Weight: 1 lb, nominal.

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