

SR-1050 Series

Make accurate calibrations and transfer measurements over three decades of resistance with the SR-1050 Series.

Features:

- Resistance transfers from 100 kΩ to 110 MΩ
- 11 equal-value precision resistors
- Two available models with steps of either 1 MΩ or 10 MΩ
- High transfer accuracy, better than 2 ppm
- May be used as a precision voltage divider



SR-1050 High Accuracy Transfer Standard

SPECIFICATIONS

Step Size	Adjustment accuracy	Transfer accuracy	Stability ppm/year	Stability long term	Temperature coefficient	Matching	
						Adj. Acc.	TC
1 MΩ	±20 ppm	±2 ppm	±15 ppm	±30 ppm	±3 ppm/°C	±10 ppm	±3 ppm
10 MΩ	±20 ppm	±2 ppm	±15 ppm	±30 ppm	±5 ppm/°C	±10 ppm	±3 ppm

Calibration conditions:

23°C, low-power, with meter guard applied to COMMON and ground applied to GND, traceable to SI
 Initial calibration data for each resistor is supplied with the instrument.

Leakage resistance:

>10 TΩ from terminal to case

Power coefficient:

<±0.05 ppm/mW per resistor

Maximum applied input:

2500 V, or 1 W per resistor, or 10 W for entire unit (whichever applies first)

Connection terminals:

Three gold-plated, 5-way, tellurium-copper binding posts with low thermal emf and low resistance.

One shielded bnc terminal labeled COMMON, used when the unit is employed as a precision voltage divider.

Breakdown voltage:

3,500 peak between any terminal and case

Environmental conditions:

Operating: 10°C to 40°C; <50% RH

Storage: -40°C to 70°C

Dimensions:

35.6 cm W x 16.5 cm H x 10.2 cm D (14" x 6.5" x 4")

Weight:

5 kg (11 lbs)

OPERATION

Operation:

	R0	R1	R2	R3	R4	R5	R6	R7	R8	R9	R10	R11
To set standard to R/10	↓	↑	↓	↓	↓	↓	↓	↓	↓	↓	↓	Off
To set standard to 10R	↓	Off	Off	Off	Off	Off	Off	Off	Off	Off	↑	Off
To set standard to 1R	↓	Off	Off	↑	Off	Off	↓	Off	Off	↑	Off	Off

Note: R0 is the left most switch

ORDERING INFORMATION

SR-1050-1M 1 MΩ/Step Resistance Transfer Standard

SR-1050-10M 10 MΩ/Step Resistance Transfer Standard

Options:

-RM: Rack mountable case for standard 19" rack

