Model SR1050

RESISTANCE STANDARDS & INSTRUMENTS

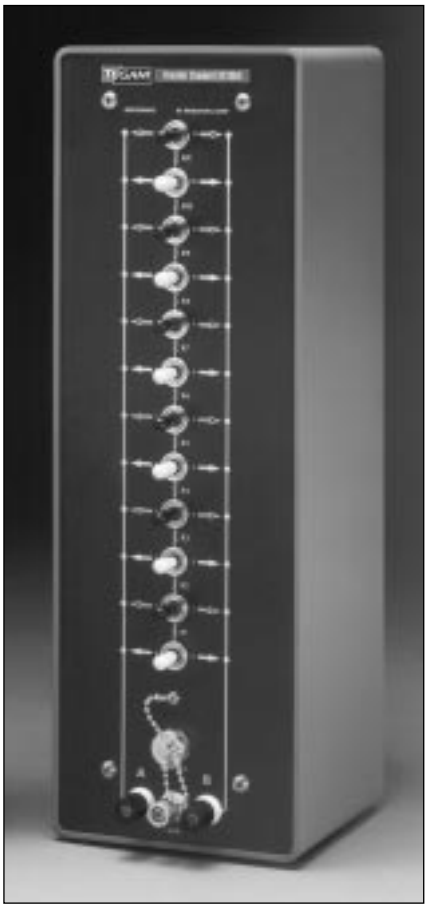
- Resistance transfers from 100kΩ to 110MΩ
- Eleven equal-value precision resistors
- Two models, decade steps 1MΩ to 10MΩ
- Complete control of insulation resistance in resistance transfers

High-Resistance Transfer Standard

Precise transfer measurements up to 110MΩ relative to a single 100kΩ resistance standard can be obtained with the Model SR1050 High-Resistance Transfer Standard. The unit is available in two models: 1MΩ and 10MΩ resistance sections.

Based on a unique method for establishing known ratios, the Model SR1050 standard utilizes a transfer technique that consists of switching resistance sections in parallel, series or series-parallel sections. An outstanding design feature is a structure in which the only insulation leakage paths (other than those within each resistance section) are from the external terminals to ground. This eliminates insulation leakage errors in the transfer of calibration from one resistance level to another using three-terminal measurement techniques.

A specially designed lever switch provides a convenient means of switching into parallel and series-parallel configuration without introducing insulation leakage errors. External shorting or paralleling bars are not necessary. Each resistance section consists of precision wire-wound resistors connected in series. The reduced heat concentration of the series connection improves the thermal characteristics of a resistance element that already has a low temperature coefficient.



Prices and specifications subject to change without notice.

TEGAM

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Model SR1050

RESISTANCE TRANSFER STANDARD

Specifications

Standard Values

1 and 10MΩ/step

Accuracy

Transfer	Limited only by short-term repeatability of resistance values. Typical repeatability ±2 ppm.
Initial	±25 ppm of nominal value, matched within 10 ppm, for 1MΩ; ±30 ppm of nominal value, matched within 10 ppm, for 10MΩ.
Long-Term	±50 ppm of nominal value
Calibration	± 10 ppm for 1MΩ; 15 ppm for 10MΩ.

Calibration Conditions

23°C, low power, three-terminal measurement

Temperature Coefficient

±5 ppm/°C, matched within 5 ppm/°C

Power Coefficient

±0.05 ppm/mW per resistor

Maximum Power Rating

1W/step or 5W distributed over 10 steps, or maximum voltage of 2.5kV where this value does not result in power excess of 1W per resistor.

Breakdown Voltage

3.5kV peak between active terminals and case

Leakage Resistance

Greater than $10^{13}\Omega$ from terminals to case

Calibration Data

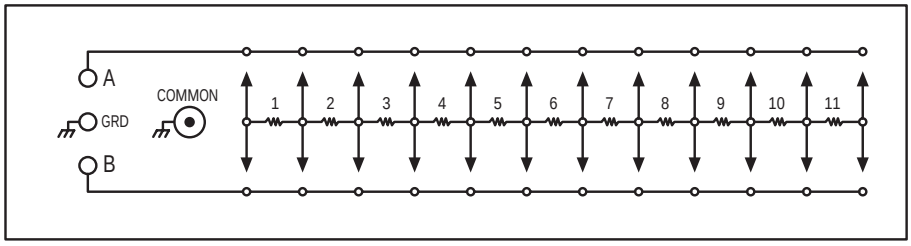
Initial calibration readings are affixed to instrument

Dimensions

Height	6.4 in.(16.25 cm)
Width	17 in.(43.2 cm)
Depth	5.6 in.(14.2 cm)

Weight

8.5 lbs. (3.9kg) net



Standard Equipment

Model SR1050 comes with a 6853 instruction manual

Calibration & Technical Services

For warranty and remedial repair, calibration services and spare parts, or for additional information on TEGAM sales and service offices around the world, contact us at **440-466-6100 (ph) or 440-466-6110 (fx).**

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