



RESISTANCE TRANSFER STANDARD

MODEL 9316 & 9317

- High Stability
- 1 MΩ & 10 MΩ/Step
- Matched to < 10 ppm
- Low Temperature Coefficient
- Eliminates Oil/Air Bath Requirement



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The model 9316/9317 Resistor Transfer Standard consists of 11 equal steps of 1 MΩ, (9316) and 10 MΩ, (9317). Specially designed toggle switches isolate each resistor and allows the standard to be configured in series, parallel, series-parallel, or separately without the use of external shorting bars.

Precise transfer measurements up to 110 MΩ relative to a single 100 kΩ resistance standard can be obtained with the MI 9316/9317 Resistance Transfer Standard. Based on a unique method for establishing known ratios, the 9316/9317 utilizes a transfer technique that consists of switching resistance elements in series, parallel or series-parallel selections.

Insulation leakage paths (other than those within each resistance section) are from the external terminals to ground. By utilizing three-terminal measurement techniques insulation leakage errors in the transfer of calibration from one resistance level to another are minimized.





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Specifications: Rev 4

Model	9316	9317
Initial Accuracy	± 25 ppm	± 30 ppm
Short Term Stability*	± 2 ppm	± 2 ppm
1 Year Stability	± 30 ppm	± 35 ppm
2 Year Stability	± 50 ppm	± 50 ppm
Temperature Coefficient	≤ ± 5 ppm/°C	≤ ± 5 ppm/°C
Leakage Resistance: Terminal to Case	> 10 ¹³ Ω	> 10 ¹³ Ω
Power Rating	1 W/Step (2.5 kV Max)	1 W/Step (2.5 kV Max)
Breakdown Voltage	5 kV	5 kV

*Limited to 48 hours values repeatability at 23 °C ± 0.05 °C

Dimensions (L × W × H):
 457 × 152 × 173 (mm)

Weight:
 4.5 kg

Shipping Weight:
 9 kg

Main Power:
 N/A

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