

DATA SHEET

MODEL 4304



Traveling Resistance Standard

- Temperature Controlled
- 4 Elements

MODEL INFORMATION

The Model 4304, a four-element resistance standard is the latest development from Measurements International's series of DC resistors and shunts. After many years of research in resistance materials, the Model 4304 insures that you get the best performance on the market today. Combined with MI's experience in automated resistance measurements the 4304 is used as a mobile temperature controlled, 4-element working resistance reference.

The four-resistance elements; 1, 10K, 1M, & 100M ohms have excellent stability and extremely low temperature coefficients and are all packaged in a portable unit. Each output resistance element is accessible from front of the unit with four terminal binding posts suitable for easy termination with spade lugs or wires. The resistor elements are maintained at 30 degrees Celsius, with an operating environment temperature range extending from 20 to 26 degrees Celsius. An internal battery backup will maintain the temperature for up to 140 hours under normal transportation conditions.

Specifications:

Nominal Resistance (ohms)	Nominal Resistance Tolerance (+/- ppm)	Calibration Uncertainty (+/- ppm)	24 Hour Stability (+/- ppm)	12 Month Stability (+/- ppm)	Temperature Coefficient (+/- ppm/°C)	Max. Voltage (Volts)
100 MΩ	50	18	3.2	25	0.025	1000
1 MΩ	25	5	0.8	5	0.005	320
10 kΩ	10	.2	0.25	5	0.005	32
1 Ω	10	.2	0.25	5	0.005	0.32
Temperature Regulation			+/- 0.01° C over a 1 year period			
Ambient Humidity Range			20 to 50% RH			
Ambient Temperature Range			23° C ±3° C			
Product Details						
Warranty			1 Year Parts & Labor			
Dimensions (H-W-D)			203 x 305 x 381 mm			
Weight			14 kg max			
Shipping Weight			20 kg.			
Operating Power			115, 230V – 50/60 Hz			

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