



TRAVELING RESISTANCE STANDARD

- Battery Backup
- 1 Ω, 10 kΩ, 1 MΩ & 100 MΩ Values
- Custom Values Available
- Stability <math> < 2.5 \times 10^{-6}</math>/Year
- Temperature Coefficient <math> < 0.005 \times 10^{-6}</math>
- Temperature Regulation ± 0.01 °C/Year

MODEL 4304



MODEL 4304 TRAVELING RESISTANCE STANDARD

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 Ω, 10 kΩ, 1 MΩ & 100 MΩ 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 °C, with an operating environment temperature range extending from 20 °C to 26 °C. An internal battery backup will maintain the temperature for up to 140 hours under normal transportation conditions.





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Specifications: Rev 6

| Nominal Resistance (Ohms) | Nominal Resistance Tolerance (\pm ppm) | Calibration Uncertainty (\pm ppm) | 24 Hour Stability (\pm ppm) | 12 Month Stability (\pm ppm) | Temperature Coefficient (\pm ppm/°C) | Max. Voltage (Volts) |
|----------------------------------|---|--------------------------------------|--------------------------------|------------------------------------|---|----------------------|
| 100 M Ω | 50 | 5 | 1 | 25 | 0.025 | 1000 |
| 1 M Ω | 25 | 2 | 0.8 | 2.5 | 0.005 | 320 |
| 10 k Ω | 10 | 0.2 | 0.25 | 2.5 | 0.005 | 32 |
| 1 Ω | 10 | 0.2 | 0.25 | 2.5 | 0.005 | 0.32 |
| Temperature Regulation | | | | ± 0.01 °C Over a 1 Year Period | | |
| Ambient Temperature Range | | | | 23 °C \pm 3 °C | | |
| Ambient Humidity Range | | | | 20 to 50 % RH | | |
| Warranty | | | | Standard 1 Year Parts & Labour | | |

Dimensions (L x W x H):
381 x 305 x 216 (mm)

Weight:
14 kg

Shipping Weight:
20 kg

Main Power:
115, 230 V – 50/60 Hz

Corporate Headquarters
Measurements International
PO Box 2359, 118 Commerce Drive
Prescott, Ontario, Canada K0E 1T0
Phone: 613-925-5934
Fax: 613-925-1195
Email: sales@mintl.com
Toll Free: 1-800-324-4988

Worldwide Offices
MI-USA
Phone: 407-706-0328
Email: sales@mintl.com

MI-Europe
Phone: +(420) 731-440-663
Email: sales@mintl.com

MI-India
Phone: +(91) 98 10 134 932
Email: sales@MILLP.co.in

MI-China
Phone: +(86) 10-64459890
Email: sales@mintl.com

MI-Japan
Phone: +(81) 72 39 64 660
Email: kaz@mijpn.com

DELTA STRUMENTI S.r.l
Via Mattei 6 - 21036 GEMONIO (VA)
Tel 0332 604.667 - Fax 0332 610.511
info@dellastrumenti.it - www.dellastrumenti.it

