

High Ohmic Value Precision Laboratory Air Resistance Standards



FEATURES

- **Resistance Range:** 10 MΩ to 10 PΩ
- **Wide Operating Range:** 18 °C to 28 °C
- **Stability as low as 10 ppm** over 12 months
- **ISO/IEC 17025 Calibration Certificate**
- **Low Temperature Coefficients**
- **Voltage Hysteresis:** < 0.1 ppm
- **Rated to 1000 V** for high-voltage applications
- **Compact & Rugged** for longevity
- **Use with** Teraohmmeters, Meggers, DMMs, and more!



Looking for the best in high and ultra-high resistance standards?
Discover the **6636 – TEMPERATURE STABILIZED** and
EMI SHIELDED Resistance Standard!

GUILDLINE'S 9336 and 9337 Series High Ohmic Value Resistance Standards are purpose-built for the most demanding resistance calibration applications in air, covering an extended range from **10 MΩ to 10 PΩ**. These cutting-edge standards are the perfect complement to Guildline's acclaimed **9334A Series**, which spans from **1 Ω to 100 MΩ**, offering complete coverage for your resistance calibration needs. Custom resistance values are also available to meet unique application requirements.

Engineered for laboratories that demand **exceptional long-term stability and low noise**, the 9336 and 9337 Series deliver low uncertainties across a wide temperature range (**18 °C to 28 °C**), making them ideal for use as both working and transfer standards. Whether you're calibrating high-precision DMMs, electrometers, picoammeters, dielectric testers, or using Guildline's own high resistance measurement instruments (**6540, 6530, 6520, 6500**), these resistance standards set the benchmark for performance and reliability.

Both series benefit from a **multi-element construction** and **ultra-stable trim resistors**, delivering lower noise and reduced drift compared to traditional single-element designs. This innovative internal architecture ensures **superior performance, stability, and long-term confidence** in every measurement.

Whether for national metrology institutes, high-end calibration labs, or advanced research facilities, the 9336 and 9337 Series represent the gold standard in ultra-high resistance measurement.

9336 & 9337 Series of Precision Air Resistance Standards

1 Year Specifications

| Model | Nominal Resistance Value (Ω) | Initial ¹ Tolerance $\pm \mu\Omega/\Omega$ (ppm) (or %) | 12 Month Stability ³ $\pm \mu\Omega/\Omega$ (or %) | Temperature Coefficient $\pm \mu\Omega/\Omega / ^\circ\text{C}$ | Voltage Coefficient $\pm \mu\Omega/\Omega / V_{dc}$ |
|-----------|---------------------------------------|--|---|---|---|
| 9336-10M | 10 M | 15 | 5 | < 5 | 0.1 |
| 9336-100M | 100 M | 35 | 20 | < 6 | 0.5 |
| 9336-1G | 1 G | 35 | 35 | < 6 | 0.5 |
| 9336-10G | 10 G | 200 | 100 | < 25 | 1 |
| 9336-100G | 100 G | 500 | 200 | < 250 | 1 |
| 9336-X | Customer Specified Value | Specifications Provided Upon Request | | | |

| | | | | | |
|-----------|--------------------------|--------------------------------------|------|--------|----|
| 9337-1T | 1 T | 1000 | 500 | < 300 | <2 |
| 9337-10T | 10 T | 3000 | 750 | < 500 | <2 |
| 9337-100T | 100 T | 5000 | 1000 | < 800 | <2 |
| 9337-1P | 1 P | 2 % | 2000 | < 1000 | <2 |
| 9337-10P | 10 P | 30 % | 2% | < 5000 | <5 |
| 9337-X | Customer Specified Value | Specifications Provided Upon Request | | | |

Note 1: Initial Tolerance is the maximum variation of resistance mean value as adjusted initially at the point of sale.

Note 2: Calibrated in air at 23 °C traceable to the SI unit of electric resistance. Calibration uncertainties expanded and expressed at the 95% level of confidence. An ISO/IEC 17025 accredited certificate and report of calibration stating the calibrated value and estimated uncertainty is provided with each resistor.

Note 3: Initial 12-month drift is for after the first year of ownership. The initial 12-month drift is higher due to stabilization of elements.

Note 4: Maximum Voltage Rating: 1000 V

GENERAL SPECIFICATIONS - ALL MODELS

| Environmental | Temperature | | Humidity | |
|---------------|-----------------|--------|------------------------|---------|
| Operating | 18 °C to 28 °C | | <50% RH non-condensing | |
| Storage | -20 °C to 60 °C | | 15% to 80% RH | |
| Dimensions | Height | Width | Depth | Weight |
| Metric | 82 mm | 124 mm | 79 mm | 0.63 kg |
| Imperial | 3.8" | 4.9" | 3.1" | 1.4 lbs |

ORDERING INFORMATION

| | |
|--|--|
| 9336-Model | Resistance Standard (10 M to 100 G : List Ohmic Value For Model) |
| 9337-Model | Resistance Standard (1 T to 10 P : List Ohmic Value For Model) |
| 9336-X | Customer Specified Value (State Value) |
| 9337-X | Customer Specified Value (State Value) |
| /OM | Operator Manual Included |
| | ISO/IEC 17025 Accredited Calibration Certificate Included |
| /Temp | Additional Customer Specified Temperature Point (Charge) |
| /Voltage | Additional Customer Specified Voltage Point (Charge) |
| /Current | Additional Customer Specified Current Point (Charge) |
| * Precision Leads Are Available – Call and tell us your requirements | |

GUILDLINE IS DISTRIBUTED BY:

Guildline Instruments Limited
 21 Gilroy Street, PO Box 99
 Smiths Falls, Ontario, Canada, K7A 4S9
 Phone: (613) 283-3000 ▪ Fax: (613) 283-6082
 Web: www.guildline.com

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