

9336 AND 9337 SERIES

PRECISION HIGH VALUE AIR RESISTANCE STANDARDS

High to Ultra-High 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 Calibrations**
- **Low Temperature Coefficients**
- **Voltage Hysteresis:** < 0.1 ppm
- **Rated to 1000V** for high-voltage applications
- **Compact & Rugged** for longevity
- **Use with** Teraohmmeters, Meggers, DMMs, and more!

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.



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

9336 & 9337 Series of Precision Air Resistance Standards

1 Year Specifications

Model	Nominal Resistance Value (Ω)	Initial ¹ Tolerance \pm ppm	12 Month Stability ³ (+/- ppm)	Temperature Coefficient \pm ppm/ $^{\circ}$ C	Voltage Coefficient \pm ppm/ V_{dc}
9336-10M	10 M	25	10	<5	0.1
9336-100M	100 M	50	25	<5	0.5
9336-1G	1 G	100	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 $^{\circ}$ 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: Maximum Voltage Rating: 1000 V

GENERAL SPECIFICATIONS - ALL MODELS

Environmental	Temperature		Humidity	
Operating	18 $^{\circ}$ C to 28 $^{\circ}$ C		<50% RH non-condensing	
Storage	-20 $^{\circ}$ C to 60 $^{\circ}$ 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)
/TM	Technical 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

30496-00-85 Rev.B3 . Copyright © 2025.05.15 Guildline Instruments Limited. All rights reserved. Subject to change without notice.