MODEL 9331R

Reference Series
Standard Air Resistors

- High Stability
- 0.1Ω to 10MΩ
- Operating Range 18°C to 28°C
- Custom Values Available
- Metal Foil Technology
- Ultra Low Temperature Coefficient

MODEL INFORMATION

Through Years of technological experience developing the most accurate and stable resistance standards available, Measurements International has developed the Model 9331R Reference Series of Precision Standard Air Resistors.

This 9331R series air resistor was developed to close the gap between high accuracy and high stability oil resistors with the air resistor market. By releasing the 9331R series of air resistors, customers now have an alternative to using oil resistors and still achieve superior measurement results.

The 9331R employs multiple oil-filled resistive elements housed in a sealed enclosure.

The resistance standards require no temperature controlled oil or air baths to achieve their specifications. However, for optimal performance as a primary set of resistors, it is recommended that the resistors be placed in the Measurements International's Model 9300A Air bath.

Connections to the 9331R are made using Gold Plated Tellurium Copper binding posts. A separate ground is included for grounding the case.

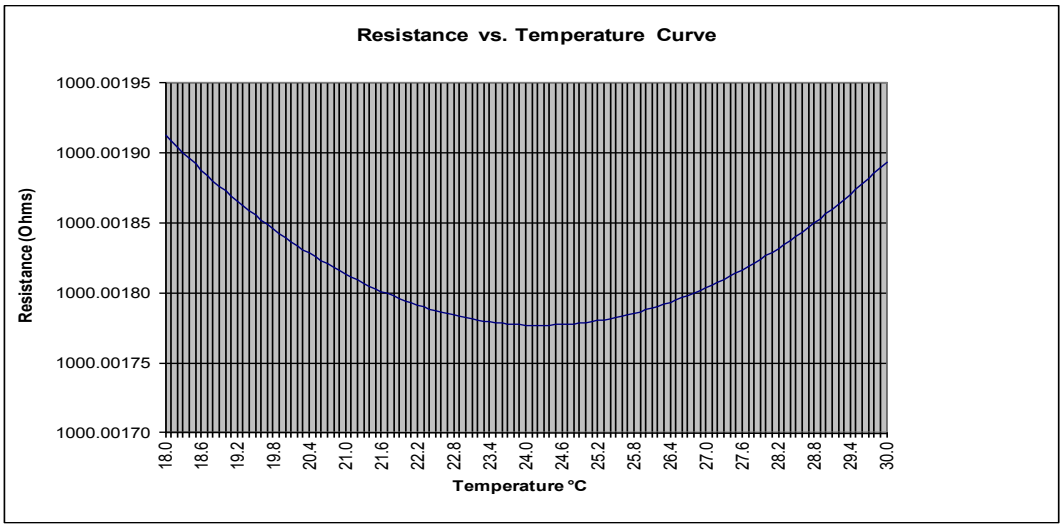
Interconnecting cable may also be ordered with the 9331R Resistance Standards. The interconnecting wire comes in either two or four conductor configurations. The wire may be ordered in lengths with screens already attached or in 100-meter rolls. No. 18 gauge solid copper, silver-plated, screened Teflon cable is recommended.

Each 9331R comes with a calibration report including the assigned value and temperature coefficient data. Each resistor comes with its own carrying case.

Specifications:

Model	Nominal Value (Ohms)	Tolerance ± ppm*	First Year Drift (ppm)	Stability 12 Month	Max Current (A)	TC at 23°C ± 1°C (ppm/°C)	Maximum Voltage
9331R/0.1	0.1	2	2.5	1	1	0.1	0.1
9331R/1	1	2	2.5	1	0.316	0.1	0.32
9331R/10	10	2	2.5	1	0.1	0.1	1.0
9331R/25	25	2	2.5	1	0.063	0.1	1.58
9331R/100	100	2	2.5	1	0.031	0.1	3.16
9331R/1k	1k	2	2.5	1	0.01	0.1	10.00
9331R/10k	10k	2	2.5	1	0.003	0.1	31.62
9331R/100k	100k	2	2.5	1	0.001	0.1	100.0
9331R/1M	1M	2	2.5	1	0.0003	0.2	300.0
9331R/10M	10M	5	2.5	1	0.0001	5	1000.0

*Tolerance – Defined as the potential variance from the nominal resistance value at the time of manufacture. Due to the natural aging process, it is recommended that the resistance value be monitored closely for the first year of ownership.



Accessories:

Air Baths

Model 9300A Standard Resistor Air Bath

Model 9300 Standard Resistor Air Bath

Interconnecting Wire

Silver Plated Solid Copper Wire

Distributed By:

Corporate Headquarters

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