2000-Series Low Resistance Standards

- *Reference Resistance Standards*
- *Based on L&N Reichsanstalt Design*
- *Excellent Stability*
- *Recommended for Use in Oil at 25°C*
- *1 Ohm to 10 Micro-Ohms*

Model 2004 100 Micro-Ohm Standard

The 2000 series Low Resistance Standards are designed as prime laboratory references for maintaining the ohm at levels below one ohm.

Based on L&N's commercialization of the Reichsastalt design, these standards exhibit excellent long term stability.

Advances in measurement science have allowed us to extend this line down to the 10 micro-ohm level, and to provide better initial accuracy than L&N.

The resistance elements used in the 2000 series have temperature coefficients of resistance notably higher than our 200 series standards. Therefore, for best accuracy, they should be maintained in stirred oil at 25°C. In this environment, heat generated by measurement current will be adequately dissipated.

The gold plated terminals feature independently rotating barrels to reduce lead wire deformation.

All models are supplied with a traceable report of calibration, including temperature coefficient data.

The 2000 series are available in intermediate values by special order.

Model Number	Nominal Resistance	Tolerance in ppm	Rated Current	Typical Coefficients	Initial 12 mo. Stability
2000	1 Ohm	<5	1 Amp	Temperature: α < 15 ppm / °C β < 5 ppm / °C	<5 ppm
2001	0.1	<10	3		< 5
2002	0.01	<15	10		< 10
2003	0.001	<20	30		< 10
2004	0.000 1	<50	100		< 10
2005	0.000 01	<100	300	Pressure < 0.1 ppm / kPa	< 10
Special Values available on request – use the following format					
Specify 20XY	20=2000 series	X = Multiplier		Y=decade range	2051=0.5 Ohm 2023=0.002

Notes:
Tolerance is accuracy at time of manufacture
Temperature coefficients are at nominal 25°C +/-5°C.

Physical:
2000 - 2004:
89 mm dia. X 159 mm high (3.5" x 6.25"); 1.5 kg (3 #)
2005:
267 mm dia. X 305 mm high (10.5" x 12"); 7 kg (14 #)

-LABS
Excellence in Resistance

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