

1000 SERIES LOW RESISTANCE STANDARDS

- *EXCELLENT STABILITY*
- *HIGH IMMUNITY FROM ENVIRONMENTAL EFFECTS*
- *FOR USE IN AIR*
- NO OIL BATH NEEDED
- *1Ω AT 1 A*
TO 10 μΩ AT 300 A



MODEL 1004

The 1000 series of standards are highly stable low value resistors designed for laboratory or on-site calibration use. They are designed to serve as secondary standards, or as semi-precision shunts.

Rated accuracy is for full current. Up to 150% current may be applied for brief periods without damage.

Their low temperature and power coefficients allow them to be used in a variety of environments without loss of accuracy. They are not significantly affected by changes in barometric pressure or relative humidity, and are will withstand moderate vibration and shock. They feature low reactance, allowing their use as both dc or ac standards.

All models are housed in a rugged, die-cast aluminum case. Internal shock-absorbing construction reduces the possibility of shifts in value due to vibration or impact. Connections are made via gold plated five-way binding posts which accept bare wire, spade lugs or banana jacks.

All models are supplied with NIST traceable calibration data.

All models are available with an optional temperature sensor bonded to the resistance element. Decade values are standard; other values are available. When specifying special values, the power should not exceed one watt.

Model	Current	Resistance	Accuracy
1000	1 A	1 Ohm	0.02 %
1001	3 A	0.1	0.05 %
1002	10 A	0.01	0.1 %
1003	30 A	0.001	0.2 %
1004	100 A	0.000 1	0.25 %
1005	300 A	0.000 01	0.5 %

For special values, use the below examples:
1 = 1000 series; X = Resistance; Y = Multiplier

Model	Current*	Resistance	Accuracy
1 05 0	1.4 A	0.5 Ohm	0.05%
1 25 4	63 A	0.000 25	0.5%

* Special value rated currents are based on power (Current x Current x Resistance) not exceeding one watt.

Stated accuracy is at time of manufacture.

Physical:

228 x 125 x 125mm / 9" x 5" x 5"; 2.5 Kg / 5#

Typical temperature coefficient of resistance (TCR)

<0.0015%/°C, <15 ppm at 23 °C

