MODEL 100 RESISTANCE STANDARDS

- EXCELLENT STABILITY
- HIGH IMMUNITY FROM
 ENVIRONMENTAL EFFECTS
- For Use in Air at 23 °C
- Low Temperature Coefficients
- Available from 1 Ω to 10 $M\Omega$

Ohm-Labs' 100-series resistance standards are designed for laboratory or on-site calibration. The low coefficients of temperature allow them to be used on a bench or in the field without loss of accuracy. They are immune from changes in barometric pressure and relative humidity, and are not affected by moderate vibration or shock. They display 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 tellurium copper low thermal emf binding posts, which accept bare wire, spade lugs or banana plugs.

All models are supplied with ISO17025 accredited, traceable calibration, including temperature characterization.

Decade and thermometry values are standard. Other resistance values are available on request.

High resistance standards in this line are available in a guarded construction. Below one ohm, please see our low resistance standards. For a full set of standards, see our new constant temperature Multiple Resistance Standard, model MRS.



100-Series Specifications

Model	Oł	nms	Dev	Stability	TCR	Max	
			(ppm)	12 mo	18-30 C	V	
100		1	<3	<3	<0.2	0.5	
101		10	<3	<3	<0.2	1	
101-T		25	<3	<3	<0.2	1	
102	1	00	<3	<3	<0.2	3	
142	4	00	<3	<3	<0.2	10	
103	1	Κ	<3	<3	<0.2	10	
104	1(0 K	<3	<3	<0.2	30	
105	10	0 K	<5	<5	<0.3	100	
106	1	М	<10	<10	<0.5	100	
107	1(DМ	<20	<10	<1.0	300	
Stated accuracy is at time of manufacture.							
18-30 °C change is in ppm ($\mu\Omega$ / Ω)							
Power: 10 mW recommended							
Hysteresis: 15-30 °C <0.1 ppm; 0-40 °C <2 ppm							
Calibration uncertainty (at 23 °C) 1-110 Ω = 1.0 ppm,							
110 Ω -100 K = 1.5 ppm, 1 M = 5 ppm, 10 M = 15							
All resistance standards carry a five year warrantee							
For special values, use the below examples:							
11.90		1.9	Ohms	S	Stability and		

11.90	1.9 Ohms	Stability and
13.52	350 Ohms	coefficients
143	4000 Ohms	are similar to
13.36	3.333 Meg	above models.

Accessories:

Installed temperature sensor Transit container



ISO17025 accredited calibration included.



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