HIGH RESISTANCE TRANSFER STANDARDS

- *FULLY GUARDED DESIGN*
- *1 M* t */ STEP TO 1 T* t =/ *STEP*
- *FOR USE IN AIR*
- *INTERNAL TEMPERATURE SENSOR*

Model 309 1 G / step Hamon

Guarded high resistance transfer standards allow accurate 100:1 build-up of high resistance.

Each device contains ten nominally equal resistors permanently connected in series. A commutator cable assembly allows connection of the ten resistors in parallel, giving 1/100th the series resistance. Other ratios are easily made.

BPO connectors provide high repeatability and guarding. BNC or type N connectors are also available.

The internal resistors and construction are similar to Ohm-Labs 100-series Guarded High Resistance Standards.

The internal guard network is made with resistors nominally equal to the main resistor values, for uniform guard voltage gradients in any configuration and ratio.

Each high resistance transfer standard includes a commutator cable assembly which can be connected to some or all the resistors, allowing intermediate ratios to be realized.

An internal thermistor allows monitoring of temperature during use.

All models include ISO17025 accredited calibration.

Model	Parallel Resistance	Series Resistance	Each Resistor
306	100 KΩ	10 MΩ	1 MΩ
307	1 MΩ	100 MΩ	10 MΩ
308	10 MΩ	1 GΩ	100 MΩ
309	100 MΩ	10 GΩ	1 GΩ
310	1 GΩ	100 GΩ	10 GΩ
311	10 GΩ	1 TΩ	100 GΩ
312	100 GΩ	10 TΩ	1 TΩ

Physical: 36x16.5x13 cm (14x6.5x5 in), 4 kG (8 lbs)
Environmental: 23+/-5 °C, 10-70 %RH
All resistance standards carry a five year warrantee

For the highest commercially available accuracy, see Ohm-Labs' MHS, a temperature stabilized Multiple High Resistance Standard, or Ohm-Labs 100-H series guarded high resistance standards.

Low resistance Hamon transfer standards, based on the Leeds & Northrup design, are also available.

Model	Each Resistor	Initial Tolerance in μΩ/Ω	Temperature Coefficient in μΩ/Ω/°C	Voltage Coefficient in μV/V	12 month Stability in μΩ/Ω
306	1 MΩ	5	<1	<0.1	<5
307	10 MΩ	10	<3	<0.1	<10
308	100 MΩ	20	<10	<0.1	<20
309	1 GΩ	35	<25	<0.1	<25
310	10 GΩ	50	<35	<0.1	<50
311	100 GΩ	200	<30	<0.2	<100
132	1 TΩ	500	<50	<0.5	<200

Excellence in Resistance

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