1067 Precision Decade Resistance Box

Time Electronics
Calibration, Test & Measurement

- **Precision PT100 Simulation**
- **0.01% Accuracy**
- **10 milliohms – 12K ohms**
- **6 Digit Resolution**
- **Better than 20ppm/year stability**

The **1067** precision decade resistance box is suitable for a wide range of simulation work.
It is particularly suitable for simulating and calibrating precision PT100 sensors and temperature indicators/meters that use resistive sensors.

Special care has been taken in the construction of the 1067 to ensure that the residual end resistance is as low and as stable as possible. Multiple self-wiping silver alloy contacts are used for each position to ensure outstanding performance and long life.

Housed in a robust metal case the 1067 is fully screened and low thermal emf terminals are used.
The switch dials have clear markings and in an easy to read in-line format. Each decade is scaled from 0 to 11 and therefore allows convenient overlap of the set values. The maximum value settable is 12,222.21 ohms.

1067 Technical Specifications	
Resistance range:	10 milliohms to 12K ohms
Number of decades:	6, each decade settable from 0 – 11
Increments:	10 milliohms steps
Accuracy:	At calibration temperature of 22 °C. +/- 0.01% of setting +/- 2 milliohms, after deduction of residual end resistance +/- 1mR for residual variation.
Current rating:	10mR range: 3A, 100mR range: 2A, 1R range: 600mA 10R range: 200mA, 100R range: 60mA, 1K range: 20mA
Residual end res:	Less than 10 milliohms. Less than 1 milliohm variation
Temperature coeff:	Less than 10 ppm per °C (> 1 ohm). Less than 20 ppm per °C (< 1 ohm)
Maximum voltage:	200V at maximum resistance setting
Insulation:	Case to resistance terminals 2kV / 50Hz max
Operating torque:	Less than 0.1 Nm
Stability:	Better than 20 ppm per year (>1ohm) Better than 100 ppm per year (<1 ohm)
Contacts:	Make before break – Silver alloy

General Specification	
Dimensions:	87mm x 63mm x 355mm
Weight:	1.1kg
Optional Extras:	19” rack mount case, 2U height Calibration Certificates – traceable to N.P.L. and UKAS

Ordering Information

Code	Description
1067	Precision Decade Resistance Box
9161	N.P.L. Traceable Calibration Certificate
9114	UKAS Calibration Certificate

Due to continuous development Time Electronics reserves the right to change specifications without prior notice.

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