



1067 Precision Decade Resistance Box

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



Introduction

The Time Electronics 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.

Ordering Information

Description	Order Code
Precision Decade Resistance Box	1067
N.P.L. Traceable Calibration Certificate	9161
UKAS Calibration Certificate	9114
19" rack mount case	

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 degC. +/- 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 resistance:	Less than 10 milliohms Less than 1 milliohm variation
Temperature coefficient:	Less than 10 ppm per degC (> 1 ohm) Less than 20 ppm per degC (< 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 (>1 ohms) Better than 100 ppm per year (<1 ohms)
Contacts:	Make before break – Silver alloy
Dimensions:	87mm x 63mm x 355mm 1.1Kg
Options:	19" rack mount case, 2U height