



# 1067 Precision Decade Resistance Box

Time Electronics

Calibration, Test & Measurement

- Precision PT100 Simulation
- 0.01% Accuracy
- 10mΩ – 12kΩ
- 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

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

## General Specification

<b>Dimensions:</b>	87mm x 63mm x 355mm
<b>Weight:</b>	1.1kg
<b>Optional Extras:</b>	19" rack mount case, 2U height Calibration Certificates – traceable to NPL and UKAS

## Ordering Information

Code	Description
1067	Precision Decade Resistance Box
9161	Factory (NPL Traceable) Calibration Certificate
9114	UKAS Calibration Certificate (ISO 17025)

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

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