



- 10mΩ to 12kΩ
- 0.01% accuracy
- Precision PT100 simulation
- Low temperature coefficient
- In-line readout
- Excellent long term stability
- 6 digit resolution
- Fully screened

DESCRIPTION

A precision resistance decade box suitable for a wide range of simulation work. High accuracy, long term stability, and low temperature coefficient make the 1067 ideal 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-cleaning 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 slim line design means it takes up minimum bench space and is easily transportable.

Resistance is selected by dialling the value required using the rotary switches. This enables precise setting with a clear unambiguous indication. 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.

SPECIFICATIONS

Range / Resolution	0 to 12kΩ / 10mΩ steps
Number of Decades	6, each decade settable from 0 to 11
Accuracy	± 0.01% of setting ± 2mΩ, after deduction of residual end resistance ± 1mΩ for residual variation. <i>At calibration temperature of 22°C.</i>
Residual Resistance	Less than 10mΩ. Less than 1mΩ variation
Power Rating	0.35 watt per resistor
Voltage Rating	Maximum 200V DC/AC RMS
Stability	20ppm/year (> 1Ω), 100ppm/year (< 1Ω)
Current Rating	10mΩ range: 3A, 100mΩ range: 2A, 1Ω range: 600mA, 10Ω range: 200mA, 100Ω range: 60mA, 1kΩ range: 20mA
Insulation	Case to resistance terminals 2kV / 50Hz maximum
Temperature Coefficient	Less than 10ppm/°C (> 1Ω). Less than 20ppm/°C (< 1Ω)
Operating Torque	Less than 0.1Nm
Contacts	Make before break – silver alloy
Dimensions / Weight	W355 x H63 x D89mm / 1.1kg

ORDERING INFORMATION

1067	Precision Resistance Decade Box
C161	Factory Calibration Certificate (NPL)
C114	UKAS Calibration Certificate (ISO 17025)

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