



1042 Precision Low Ohm Resistance Box

- 0.01Ω to 1kΩ
- 10mΩ resolution
- Colour coded digits
- High stability and low temperature coefficient
- Ideal for Platinum Resistance Thermometer simulation



Introduction

The 1042 is a compact, robust and precision decade resistance box and will find many applications in both industry and education. The 1042 is particularly suitable for simulation of platinum resistance thermometers.

Special attention has been given to the problem of reliability of operation. A special multiple gold contact arrangement ensures low contact resistance and continued operation even if a contact should fail.

To prevent misreading, the 1042 incorporates a unique colour coding system to divide the setting into 2 units, MilliOhms and Ohms.

Specification

Resistance Range: 0.01Ω to 1kΩ in 0.01 ohm steps

ACCURACY				
0.01Ω	0.1Ω	1Ω	10Ω	100Ω
±10%	±5%	±0.1%	±0.05%	±0.01%

Zero Residual Resistance: 50mΩ maximum
Residual Resistance Stability: less than 3mΩ
Power Rating: 0.3 watt per resistor
Maximum Working Voltage: 100 volts D.C.
 70 volts A.C. (RMS)
Maximum Current: 1 amp D.C.
 0.7 amp A.C. (RMS)
Connection: 4 mm terminals. A third terminal is provided to earth the case or to be connected to either terminal.
Temperature Coefficient: 1R, 10R, 100R Decades –10ppm per °C
 0.01R, 0.1R Decades – 65ppm per °C
Dimensions: 110 x 75 x 200 mm **Weight:** 0.6 kg
Optional Extras: Carry Case for field or industrial applications.

Ordering Information

Description	Order Code
Precision Low Value Decade Resistance Box	1042
Carry Case	9026
N.P.L. Traceable Calibration Certificate	9161
UKAS Calibration Certificate	9114



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