



1041 Low Ohm Resistance Box

Time Electronics

Calibration, Test & Measurement

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



Introduction

The 1041 is a compact, robust, and accurate decade resistance box designed for applications in both industry and education. With its low resistance ranges the 1041 is particularly suitable for simulation of platinum resistance thermometers.

Switch Contacts

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.

Ordering Information

Description	Order Code
Low Ohm Resistance Box	1041
Carrying Case	9026
N.P.L. Traceable Calibration Certificate	9161
UKAS Calibration Certificate	9114

Specifications

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

ACCURACY				
0.01Ω	0.1Ω	1Ω	10Ω	100Ω
±10%	±5%	±1%	±0.5%	±0.1%

Zero Residual Resistance: 60mΩ maximum

Residual Resistance Stability: less than 3 milliohms

Power Rating: 1 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: 4mm terminals. A third terminal is provided to enable the case to be earthed or connected to either terminal.

Temperature Coefficient: 100 ppm per°C

Dimensions: 110 x 75 x 200 mm

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