



1041 Low Ohm Resistance Box

Time Electronics

Calibration, Test & Measurement

- 0.01Ω to 1kΩ
- 10mΩ resolution
- High stability
- Low temperature coefficient
- Ideal for RTD/PRT



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 reliability of operation. A special multiple gold contact arrangement ensures low contact resistance and continued operation even if a contact fails.

Safety Terminals: Fully compatible with 4mm shrouded plugs, as well as standard plugs, bare wires, and spade terminals.

Added Protection: The 1041 comes fitted with an ergonomic rubber boot (9028) providing increased protection and durability. The boot has a textured grip for comfortable handling and a raised edge so the 1041 angles slightly upward when resting horizontally. This improves visibility as well as gripping the surface, meaning no movement when thumbwheel switches are pressed. It is easy to remove if the user prefers a stand-alone unit or to house the decade box in the 9026 carry case.

1041 Technical Specifications

Range: 0.01Ω to 1kΩ in 0.01Ω steps

Decade (Ω)	0.01Ω	0.1Ω	1Ω	10Ω	100Ω
Acc. %	± 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 DC, 70 volts AC (RMS)

Maximum Current: 1 amp DC, 0.7 amp AC (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

General Specification

Dimensions: 200 x 75 x 110mm (215 x 100 x 120mm including protective boot)

Weight: 0.6kg (1kg including protective boot)

Optional Extras: Carry Case
Calibration Certificates – traceable to NPL and UKAS

Ordering Information

Code	Description
1041	Low Ohm Resistance Box
9026	Leatherette Carry Case
9161	Factory (NPL Traceable) Calibration Certificate
9114	UKAS Calibration Certificate (ISO 17025)

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