



# 1051 Low Ohm Resistance Box

Time Electronics

Calibration, Test & Measurement

- 0.01  $\Omega$  – 1 M $\Omega$
- High accuracy
- Clear visual indication
- High stability
- Low temperature coefficient
- Ideal for RTD/PRT
- Removable protective boot



The 1051 is a wide range low ohm resistance box designed for general laboratory work including platinum resistance thermometry.

**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.

**Clear Visual Indication:** To enhance reading the setting, the 1051 has colour coded digits as shown in the above image; Kohms (red), ohms (white), and 0.1 ohms (yellow).

**Added Protection:** The 1051 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 1051 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.

## 1051 Technical Specifications

Range: 0.01 $\Omega$  to 1M $\Omega$  in 0.01 $\Omega$  steps

Decade ( $\Omega$ )	0.01 $\Omega$	0.1 $\Omega$	1 $\Omega$	10 $\Omega$	100 $\Omega$	1k $\Omega$	10k $\Omega$	100k $\Omega$
Acc. %	$\pm 10\%$	$\pm 5\%$	$\pm 1\%$	$\pm 0.5\%$	$\pm 0.1\%$	$\pm 0.1\%$	$\pm 0.1\%$	$\pm 0.1\%$
Max Current (A)	1A	1A	1A	0.3A	0.1A	33mA	10mA	3mA

<b>Zero Residual Resistance:</b>	Less than 90m $\Omega$
<b>Residual Resistance Stability:</b>	Less than 3 m $\Omega$
<b>Maximum Voltage:</b>	250V DC/AC RMS
<b>Power Rating:</b>	1 watt per resistor
<b>Temperature Coefficient:</b>	< 100 ppm per $^{\circ}\text{C}$

## General Specification

<b>Dimensions:</b>	200 x 75 x 110mm (215 x 100 x 120mm including protective boot)
<b>Weight:</b>	0.6kg (1kg including protective boot)
<b>Optional Extras:</b>	Carry Case Calibration Certificates – traceable to NPL and UKAS

## Ordering Information

Code	Description
1051	Low Ohm Resistance Box
9026	Leatherette Carry Case
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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