



# 1040 Decade Resistance Box

Time Electronics

Calibration, Test & Measurement

- 1  $\Omega$  – 100 M $\Omega$
- High accuracy
- Clear visual indication
- High stability
- Low temperature coefficient
- Removable Protective Boot



The **1040** is an accurate hand held decade resistance box designed to meet the needs of industry and education. Housed in a robust metal case the compact construction makes it easily portable. Excellent accuracy is achieved by using high stability metal film resistors. Mid-scale accuracy is 0.1%. The 8-digit thumbwheel switch enables precise setting with a clear unambiguous indication of the resistance value. The temperature coefficient is better than 50 ppm per  $^{\circ}\text{C}$ . Each resistor has a power rating of 1 watt.

**Switch Contacts:** Special attention has been given to reliability. A special multiple gold contact switch arrangement ensures that back-up contacts are always available to take over should a contact fail.

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

**Clear Visual Indication:** To prevent misreading, the 1040 incorporates a colour coding system to divide the display into 3 groups to indicate ohms, Kilohms, and Megohms.

**Added Protection:** The 1040 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 1040 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 easily removable if required.

## 1040 Technical Specifications

**Range:** 1 $\Omega$  to 100M $\Omega$  in 1 $\Omega$  steps

Decade ( $\Omega$ )	1 – 9 $\Omega$	10 – 90 $\Omega$	100 – 900 $\Omega$	1 – 9k $\Omega$	10 – 90k $\Omega$	100 – 900k $\Omega$	1 – 9M $\Omega$	10 – 90M $\Omega$
Acc. %	$\pm 1\%$	$\pm 0.5\%$	$\pm 0.1\%$	$\pm 0.1\%$	$\pm 0.1\%$	$\pm 0.1\%$	$\pm 0.1\%$	$\pm 1\%$
Max Current (A)	0.5A	0.3A	100mA	30mA	3mA	0.3mA	30uA	3uA

**Power Rating:** 1 watt per resistor. Metal film resistors.

**Voltage Rating:** Max 250V DC/AC (RMS)

**Zero Residual:** Less than 250 m $\Omega$ .

**Temp Coefficient:** Less than 50 ppm per  $^{\circ}\text{C}$ .

**Connections:** 4mm insulated terminal & binding post.

## 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
1040	Decade 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.

Time Electronics, Botany Industrial Est. Tonbridge, Kent. England. TN9 1RH.

Tel: +44 (0)1732 355993 Fax: +44 (0)1732 770312 E-mail: mail@timeelectronics.com