



# 1040 Decade Resistance Box

Time Electronics

Calibration, Test & Measurement

- 1  $\Omega$  – 100 M $\Omega$
- High accuracy
- Clear visual indication
- High stability and low temperature coefficient
- Compact and robust



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.

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

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.

## 1040 Technical Specifications

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

Decade ( $\Omega$ )	1 – 9	10 – 90	100 – 900	1 – 9k	10 – 90k	100 – 900k	1 – 9M	10 – 90M
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)	0.5	0.3	100m	30m	3m	0.3	30u	3u

**Power Rating:** 1 watt per resistor. Metal film resistors.  
**Voltage Rating:** Max 300V.  
**Zero Residual:** Less than 250 milliohms.  
**Temp Coefficient:** Less than 50 ppm per  $^{\circ}\text{C}$ .  
**Connections:** 4mm insulated terminal & binding post.

## General Specification

**Dimensions:** 110 x 75 x 200 mm  
**Weight:** 0.6kg  
**Optional Extras:** Carry Case  
 Calibration Certificates – traceable to N.P.L. and UKAS

## Ordering Information

Code	Description
1040	Decade Resistance Box
9026	Carrying Case
9161	N.P.L. Traceable Calibration Certificate
9114	UKAS Calibration Certificate

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.co.uk

[www.timeelectronics.co.uk](http://www.timeelectronics.co.uk)

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