



1040 Decade Resistance Box

Time Electronics

Calibration, Test & Measurement

- 1 Ω – 100 M Ω
- High accuracy and precision
- Clear visual indication
- High stability and low temperature coefficient
- Compact and robust



Introduction

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 °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.

Specifications

Range: 1 Ω to 100M Ω in 1 Ω steps

Decade	1 - 9 ohm	10 - 90 ohm	100 - 900 ohm	1 - 9 kohm	10-90 kohm	100 -900 kohm	1 - 9 Mohm	10 - 90 Mohm
Acc %	± 1	± 0.5	± 0.1	± 0.1	± 0.1	± 0.1	± 0.1	± 1
Max Current	0.5 A	0.3 A	100 mA	30 mA	3 mA	0.3 mA	30 uA	3 uA

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

Voltage Rating: Max 300V.

Zero Residual: Less than 250 milliohms.

Temp Coeff: Less than 50 ppm per °C.

Connections: 4mm insulated terminal & binding post.

Dimensions: 110 x 75 x 200 mm, 0.6kg

Optional Extras: Carrying Case. NPL/UKAS certificate.

Ordering Information

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

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