



Description

A precision wide range resistance decade box designed to meet the requirements of both industry and education. The 1040 is compact and durable, housed in a robust metal case with removable protective rubber cover, making it ideal for use in either the laboratory or field. Excellent accuracy (mid-scale 0.1 %) is achieved by using high stability metal film resistors. The 8-digit thumbwheel switch enables simple and precise setting with a clear indication of the resistance value.

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.

Clear Visual Indication: To make selecting and reading the setting easy the 1040 incorporates colour coded digits: megohms - red, kilohms - yellow, ohms - white.

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

Added Protection: The 1040 comes fitted with an ergonomic rubber cover providing increased protection and durability. It has a textured grip for comfortable handling and side openings to place labels. It is easy to remove if the user prefers a stand-alone unit or to house the 1040 in the optional 9026 carry case.

Specifications

Range / Resolution..... 1 Ω to 100 M Ω / 1 Ω steps.

Decade	1 Ω	10 Ω	100 Ω	1 k Ω	10 k Ω	100 k Ω	1 M Ω	10 M Ω
Accuracy	$\pm 1\%$	$\pm 0.5\%$	$\pm 0.1\%$	$\pm 0.1\%$	$\pm 0.1\%$	$\pm 0.1\%$	$\pm 0.1\%$	$\pm 1\%$
Max current	0.5 A	0.3 A	100 mA	30 mA	3 mA	0.3 mA	30 μ A	3 μ A

Residual resistance..... Less than 250 m Ω .

Power rating..... 1 watt per resistor.

Voltage rating..... Maximum 250 V DC, 176 V AC RMS.

Temperature coefficient..... 50 ppm/ $^{\circ}$ C.

Dimensions / Weight..... W 215 x H 100 x D 120 mm / 1 kg.

Due to continuous development Time Electronics reserves the right to change specifications without prior notice.

Features

- 1 Ω to 100 M Ω
- High accuracy
- Clear visual indication
- High stability
- Low temperature coefficient
- Safety terminals
- Removable protective cover
- Suitable for industry or education

Common Applications

- Calibration of resistance in measuring devices
- Pt100 simulation for checking RTD transmitters
- Select-on-test resistance substitution in circuit design
- Educational understanding of Ohm's Law

Ordering Information

1040.....Resistance Decade Box
9026.....Carry case
C161.....Traceable calibration certificate (Factory)
C114.....Accredited calibration certificate (ISO 17025)