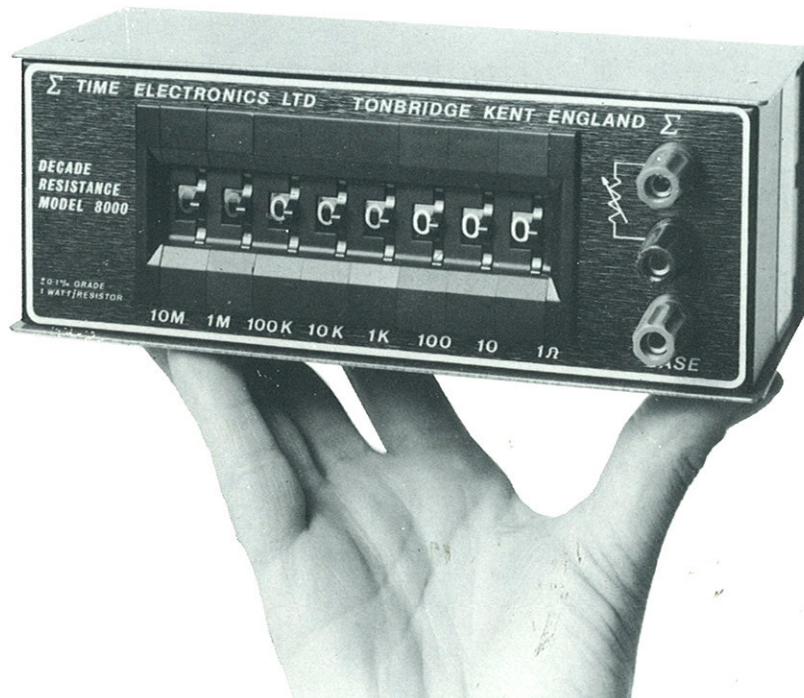


8000 DECADE RESISTANCE BOX

1040



TIME ELECTRONICS

The 8000 is a compact, robust and accurate decade resistance box designed to meet the needs of both industry and education.

● COMPACT AND ROBUST

The 8000 is housed in a robust metal case and the compact construction makes it easily portable. When in use in the laboratory it takes up a minimum of bench space.

● HIGH ACCURACY AND PRECISION

The high accuracy of the 8000 is achieved by means of high stability metal film resistors. Accuracy at low settings is determined by the switch contact resistance which has been kept to a minimum. Mid-scale accuracy is 0.1% or better. The thumbwheel switch selection of output resistance enables precise setting with a clear unambiguous indication.

● HIGH STABILITY AND LOW TEMPERATURE COEFFICIENT

Metal film resistors are used to obtain the high stability and low temperature coefficient. The temperature coefficient is typically better than 50 ppm per °C. Each resistor has a power rating of 1 watt.

● CLEAR VISUAL INDICATION

It is imperative that the switch setting should be unambiguous in order to avoid misreading the set value. The possibility of misreading increases considerably as the number of digits is increased. To prevent misreading the 8000 incorporates a unique colour coding system to divide the setting into 3 groups corresponding to ohms, kilohms and megohms. This feature makes the 8000 ideal for educational applications.

SPECIFICATION

Resistance Range: 1Ω to 100MΩ in 1Ω steps.

Resistor Accuracies: 1Ω ± 1%, 10Ω ± 0.5%, 100Ω, 1K, 10K, 100K, 1M ± 0.1%, 10M ± 1%.

Zero Residual Resistance: Less than 250 milliohms.

Switch Contacts: Special attention has been given to the problem of reliability of operation. A special multiple contact arrangement ensures that a back-up contact is always available to take over should a failure occur.

Power Rating: 1 watt per resistor.

Temperature Coefficient: 50 ppm per °C.

Connections: 4 mm terminals. A third terminal is provided to enable the case to be earthed or connected to either output.

Construction: The case is of robust metal construction finished in two-tone blue and black. Metal film resistors are employed throughout.

Colour Coded Decade Switches: 8 decades, with colour coding to indicate ohms, kilohms and megohms.

Dimensions: 110 mm (4.3 in) × 75 mm (3.0 in) × 200 mm (7.9 in); 0.6 kg (1.3 lb).

Carrying Case: A carrying case is available as an extra and protects the 8000 for field and industrial applications.

