

RM8

WIDE RANGE, COMPACT & VERSATILE 8 DECADE RESISTANCE BOX WITH DOUBLE POLE SWITCHING

The model RM8 decade resistance box is designed to compliment our range of resistance boxes, offering a very wide range 0.01 ohm to 1 Mega ohm in a compact and versatile unit. The low decade steps of 0.01 ohm enable very high resolution, when simulating resistance values and the power rating is 1.0 watt per coil. The RM8 uses double pole switching to minimize the effects of contact resistance. The lower value decades (0.01 and 0.1 ohm) are manufactured from Manganin resistance wire and the other decades from selected metal film resistors. This offers good stability combined with excellent load and temperature coefficients. Housed in a hardwood case with metal panel the size is only 254 x 145 x 80mm and the connections are with 4mm binding posts that will accept spade or banana plugs.

KEY FEATURE	RM8
8 decades	■
Wide range 0.01 ohm to 1 Mega ohm	■
Accuracy 0.1%	■
Exceptional value for money	■
Compact size	■
Power rating 1W / coil	■

RM8 SPECIFICATIONS

Decade	Accuracy	Maximum Current
10 x 100kΩ	± 0.1%	0.003A
10 x 10kΩ	± 0.1%	0.01A
10 x 1kΩ	± 0.1%	0.033A
10 x 100Ω	± 0.1%	0.1A
10 x 10Ω	± 0.5%	0.3A
10 x 1Ω	± 1%	1.0A
10 x 0.1Ω	± 5%	1.0A
10 x 0.01Ω	± 10%	1.0A

Terminals

2 binding posts will accept 4mm banana plugs and spade tags.
1 terminal for connection to panel/earth

Dimensions

254mm x 145mm x 80mm (W H D) approx

Mass

0.95 kg

Resistors

Power Rating: 1 watt per resistor

Lower decades (0.01 & 0.1 ohm) Manganin wire wound,
other decades metal film

Temperature coefficient: 10ppm/°C

Switches

Rotary 2 poles in parallel, contacts silver plated brass with positive click mechanism. Insulation >50,000 Mega ohm

Residual Resistance

< 0.1 ohm

Test Voltage

1kV dc between terminals and panel



CM5-N

5 DECADE CAPACITANCE COMPENSATION BOX TO COMPLIMENT THE RM6-N

KEY FEATURE	CM5-N
5 decades	■
Range 100 pF to 11.111 uF	■
Accuracy 5%	■
Residual capacitance 30 pF at zero setting	■
Residual capacitance compensation	■

A five decade capacitance box to compliment the RM6-N range of resistance decades. Styled in the same ergonomic desk case, the CM5-N is a useful addition to any laboratory, as well as for industrial and educational use. The required capacitance is set by means of rotary switches with skirted knobs and stators giving a clear indication of the dial setting. The capacitors are a combination of polycarbonate and polystyrene, generously rated minimum 160 Vdc with a good dissipation factor and high insulation. A useful feature of this unit is the residual capacitance being compensated for on the 10 x 100pF and 10 x 1nF dials so that the actual value of the dial setting appears at the terminals.

CM5-N SPECIFICATIONS

Dimensions

190mm x 140mm x 100mm (W H D) approx

Mass

0.8kg

Case

High impact polystyrene anthracite grey RAL 7016

Switches

Contacts silver plated brass. Contact resistance = 10 mohm with positive click mechanism. Insulation Resistance = 50,000 Mohm

Capacitance Range

11.111μF in 100pF steps

Max Operating Voltage

63V RMS (50Hz) 100 V d.c.

Residual Capacitance

Dials set at zero: 35pF Max

Accuracy: ± 5%

Connection: 4mm terminals

Decade	Accuracy
10 x 100pF	± 5%
10 x 1nF	± 5%
10 x 10nF	± 5%
10 x 100nF	± 5%
10 x 1μF	± 5%

