

RM6

WIDE RANGE, COMPACT & VERSATILE 6 DECADE RESISTANCE BOX WITH DOUBLE POLE SWITCHING

This small, cost effective decade box further enhances our comprehensive range, offering excellent value for money. This 6 decade model has a total resistance of 11.1111 Mega ohm with a resolution of 10 ohm. The accuracy of $\pm 1\%$ is achieved using metal film resistors which have a power rating of 0.4 Watt. Designed for durability the case is hardwood with an anodised aluminium top panel which is clearly marked with the switch position numbers and the decade values. The size is only 287 x 65 x 65 mm. The RM6 is a valuable addition to any workshop or laboratory offering a wide range of values with minimum cost.

KEY FEATURE	RM6
6 decades	■
Range 10 ohm to 10 Mega ohm	■
Accuracy 1%	■
Low cost	■

RM6 SPECIFICATIONS

Decade	Accuracy	Maximum Current
10 x 10 Ω	$\pm 1\%$	200mA
10 x 100 Ω	$\pm 1\%$	60mA
10 x 1k Ω	$\pm 1\%$	20mA
10 x 10k Ω	$\pm 1\%$	6mA
10 x 100k Ω	$\pm 1\%$	2mA
10 x 1M Ω	$\pm 1\%$	0.6mA

Terminals

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

Dimensions

287mm x 65mm x 65mm (W H D) approx

Mass

0.48kg

Maximum Continuous Working Voltage

70Vdc, 33Vrms

Resistors

Metal film 0.4 W at 70°C

Temperature coefficient ± 100 ppm / °C

Switches

Silver plated brass contact resistance <10 mOhm

positive click mechanism

Insulation Resistance >50,000Mohm

Residual Resistance

< 0.1 Ω

Case

Wood with anodised aluminium top panel



RM6N

SPACE SAVING, COMPACT & VERSATILE 6 DECADE RESISTANCE BOX WITH WIDE RANGE

KEY FEATURE	RM6N
6 decades	■
Range 10 ohm to 10 Mega ohm	■
Accuracy 1%	■
Low cost	■

The RM6-N is a space saving 6 decade resistance box, 3 models are available covering the range 1 ohm to 111,111 Mega ohm. An additional 1 kilo ohm resistor is available at the terminals enabling the user to make a simple divider. The RM6-N incorporates 0.4 watt resistors with a specified accuracy of $\pm 1\%$. Designed for durability and ease of maintenance, the case is high impact polystyrene and the size is only 190 x 140 x 70 mm. The RM6-N's constitute an ideal tool for use in all electrical and electronic laboratories or workshop environments offering a wide range of values with minimum cost.

RM6N SPECIFICATIONS

Decade	Accuracy	Maximum Current	RM6-N	RM6-N2	RM6-N3
10 x 1 Ω	$\pm 1\%$	600mA		■	
10 x 10 Ω	$\pm 1\%$	200mA	■	■	
10 x 100 Ω	$\pm 1\%$	60mA	■	■	■
10 x 1k Ω	$\pm 1\%$	20mA	■	■	■
10 x 10k Ω	$\pm 1\%$	6mA	■	■	■
10 x 100k Ω	$\pm 1\%$	2mA	■	■	■
10 x 1M Ω	$\pm 1\%$	0.6mA	■		■
10 x 10M Ω	$\pm 1\%$	0.2mA			■

Dimensions

190mm x 140mm x 70mm (W H D) approx

Mass

0.49kg

Maximum Continuous Working Voltage

70Vdc, 33Vrms

Resistors

Metal film 0.4W at 70 °C
Temperature coefficient ± 100 ppm / °C
Except 1 Ω : ± 200 ppm / °C

Switches

Silver plated brass Contact resistance = 10 milli ohm, positive click mechanism. Insulation Resistance >50,000 Mega ohms

Residual Resistance

< 0.1 Ω

Case

High impact polystyrene



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 / resistor	■

RM8 SPECIFICATIONS

Decade	Accuracy	Maximum Current
10 x 100k Ω	$\pm 0.1\%$	3mA
10 x 10k Ω	$\pm 0.1\%$	10mA
10 x 1k Ω	$\pm 0.1\%$	30mA
10 x 100 Ω	$\pm 0.1\%$	100mA
10 x 10 Ω	$\pm 0.5\%$	300mA
10 x 1 Ω	$\pm 1\%$	1000mA
10 x 0.1 Ω	$\pm 5\%$	1000mA
10 x 0.01 Ω	$\pm 10\%$	1000mA

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

Maximum Continuous Working Voltage

70Vdc, 33Vrms

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

