

# RM8

## Wide range, compact and versatile 8 decade resistance box with pole switching

The model RM8 decade resistance box is designed to complement our range of resistance boxes, offering a very wide range 0.01Ω to 1 MΩ in a compact and versatile unit. The low decade steps of 0.01Ω enable very high resolution when simulating resistance values and the power rating is 1.0W per coil. The RM8 uses double pole switching to minimize the effects of contact resistance. The lower value decades (0.01 and 0.1Ω) 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 Features

- 8 decades
- Wide range 0.01Ω to 1MΩ
- Accuracy 0.1%
- Exceptional value for money
- Compact size
- Power rating 1W/resistor

### Ideal For

- Engineering departments
- Laboratories/workshops
- Service/calibration departments
- Calibration houses

### Technical Specifications

Decade	Accuracy	Maximum Current
10 x 100kΩ	± 0.1%	3mA
10 x 10kΩ	± 0.1%	10mA
10 x 1kΩ	± 0.1%	30mA
10 x 100Ω	± 0.1%	100mA
10 x 10Ω	± 0.5%	300mA
10 x 1Ω	± 1%	1000mA
10 x 0.1Ω	± 5%	1000mA
10 x 0.01Ω	± 10%	1000mA

### Terminals

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

**Maximum Continuous Working Voltage**  
70VDC, 33Vrms

### Resistors

Power Rating: 1W per resistor  
Lower decades (0.01 & 0.1Ω) 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 >50,000MΩ

**Residual Resistance**  
< 0.1Ω

### General Specifications

#### Dimensions

254 x 145 x 80mm / 10 x 5.7 x 3.1"  
(w x h x d) approx

#### Mass

0.95kg / 2lbs

#### Services

1 year warranty (subject to product registration with Seaward. Visit [www.seaward.co.uk/register-product](http://www.seaward.co.uk/register-product))

Service and calibration by Calibrationhouse. Go to [www.calibrationhouse.com](http://www.calibrationhouse.com) for more information.

**Part Number**  
930144





Thank you for reading this data sheet.

For pricing or for further information, please contact us at our UK Office, using the details below.



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Please note - Product designs and specifications are subject to change without notice. The user is responsible for determining the suitability of this product.