



## 1041 Low Ohm Resistance Box

- 0.01Ω to 1kΩ
- 10mΩ resolution
- High stability and low temperature coefficient
- Ideal for Platinum Resistance Thermometer simulation



### Introduction

The 1041 is a compact, robust and accurate decade resistance box and will find many applications in both industry and education. With its low resistance ranges the 1041 is particularly suitable for simulation of platinum resistance thermometers.

#### Switch Contacts

Special attention has been given to the problem of reliability of operation. A special multiple gold contact arrangement ensures low contact resistance and continued operation even if a contact should fail.

### Specification

**Resistance Range:** 0.01Ω to 1kΩ in 0.01Ω steps

| ACCURACY |      |     |       |       |
|----------|------|-----|-------|-------|
| 0.01Ω    | 0.1Ω | 1Ω  | 10Ω   | 100Ω  |
| ±10%     | ±5%  | ±1% | ±0.5% | ±0.1% |

**Zero Residual Resistance:** 60mΩ maximum  
**Residual Resistance Stability:** less than 3 milliohms  
**Power Rating:** 1 watt per resistor  
**Maximum Working Voltage:** 100 volts D.C.  
 70 volts A.C. (RMS)  
**Maximum Current:** 1 amp D.C.  
 0.7 amp A.C. (RMS)  
**Connection:** 4mm terminals. A third terminal is provided to enable the case to be earthed or connected to either terminal.  
**Temperature Coefficient:** 100 ppm per°C  
**Dimensions:** 110 x 75 x 200 mm

### Ordering Information

| Description                              | Order Code |
|--|------------|
| Low Ohm Resistance Box                   | 1041       |
| Carrying Case                            | 9026       |
| N.P.L. Traceable Calibration Certificate | 9161       |
| UKAS Calibration Certificate             | 9114       |



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