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# IPC Irwin Decade Resistance Box

Part Number IPC-5128-X

## User Instructions



### INTRODUCTION.

The IPC Irwin Decade Resistance Box has been designed as a versatile and easy to use adjustable resistor and is ideal for demonstrating the principles of Ohm's law. The resistance box can also be set up to demonstrate the function and effects of a potentiometer as a volume control etc.

### DESCRIPTION.

The Decade Resistance Box provides four decade ranges allowing a full range of 0 ohms to 9,999 ohms, with a resolution of 1 ohm throughout the full range. Each decade resistance is selected by a rotary switch and tapping points are provided across each range to allow the unit to be used as an accurate potential divider (potentiometer). All resistance values are accurate to  $\pm 2\%$  with a power rating of 0.25W maximum per decade. The unit is housed in a robust ABS plastic case and uses standard 4mm sockets.

### INSTRUCTIONS.

Simply connect your 4mm test leads to the required decade range or ranges and adjust the rotary switch or switches to set the overall resistance required. To set up as a potential divider simply connect across the two decade ranges required, making sure the decade ranges not used are set to 0 ohms.

### SPECIFICATIONS.

Dimensions = 100 x 150 x 80mm overall  
Mass = 0.32kg

**IPC Irwin**

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Total Resistance = 0 ohms to 9,999 ohms  
Resistance Ranges = 0 to 9.0 ohms, 0 to 90 ohms, 0 to 900 ohms and 0 to 9,000 ohms  
Resistance Resolution = 1 ohm (across the full range)  
Power Rating = 0.25W per decade  
Accuracy =  $\pm 2.0\%$

**Please Note:** This Equipment is for Education, Training, or research Purposes Only.

Thank you for choosing this IPC Irwin product, which has specifically been designed for education and we know it will bring you good service long into the future. This is just one product of a wide range of UK designed and manufactured products to enhance a STEM education. Please see [www.ipcirwin.com](http://www.ipcirwin.com) website for more details on the products and service we provide to support teaching and learning in science and technology.

IPC Irwin also provide Portable Appliance Testers and a Calibration service, for more details please go to [www.ipcirwin.com](http://www.ipcirwin.com) or call our sales and technical support line on 015395 58555.



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