



# 5 Year Warranty

- Irwin Science Education hereby warrants, to the end user ("Purchaser") who purchased the genuine Irwin Science Education product ("Product"), from an authorised Irwin Science Education reseller, ("Reseller"), that the Product will be free from defects in materials and workmanship ("Defects"), for a period of five years from the date the Product was purchased from Irwin Science Education direct or via authorised reseller. Subject to the terms and conditions indicated below.
- Irwin Science Education will repair or replace such Product or part thereof which, upon inspection by Irwin Science Education, is found to be defective, despite the Product not having been subjected to Improper Activity (defined below). Improper activity shall render this warranty void. "Improper Activity" includes any and all of the following:  
Installation by anyone other than a Reseller;  
Improper installation:  
Use/operation/maintenance other than in accordance with Irwin Science Education's instructions and requirements within an educational/training establishment (as directed below);  
Tampering by Purchaser; neglect; damage by the application of force; bending; breaks; cracks; scratches; any other act of vandalism;  
Repair or alteration by anyone other than a Reseller; Use of additional components or other components that are not suitable and genuine Irwin Science Education components;  
Use in a non-educational teaching environment.
- All the foregoing as determined by Irwin Science Education, in its sole judgment.
  - Instructions and recommendations for correct use of Irwin products are within the original product instructions or available for download from [www.irwinscienceeducation.com](http://www.irwinscienceeducation.com).
  - Irwin Science Education's sole obligation under this limited warranty is to repair or replace, at Irwin Science Education's sole discretion any Product and/or Product component found by Irwin Science Education to have Defects. This limited warranty does not grant any other rights or give rise to any other obligation, or absolve Purchaser of the responsibility to employ any other suitable measures, by whatever means, including insurance, against the risk of personal injury or damage to property.

This limited warranty relates to product's defects only. Irwin Science Education shall be liable, in any event, for any labour costs associated with the product and its installation process. In order to facilitate the warranty service and enable Irwin Science Education to determine entitlement under this warranty, Purchaser must first have completed the online product registration registration form within 1 month of the original product purchase date, with proof of purchase from a Reseller via the printed product registration card supplied or online at [www.irwinscienceeducation.com](http://www.irwinscienceeducation.com). All shipping, handling or other incidental and/or related charges are fully payable by the purchaser only and are not included in this limited warranty. Items excluded / limited from this warranty, Screws, Nuts, Bolts, Normal wear and tear, Cleaning with cleaning detergents, Improper handling and misuse.

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# Powermeter AC Instructions



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### The Irwin Powermeter AC

#### Operation

Plug the unit into the mains supply and plug an appliance into the mains socket.

#### Energy Reading

The energy reading is displayed in Wh, not Joules. To convert to Joules the display reading should be multiplied by 3,600.

#### Backlight

The display has a back light feature which may be turned on or off by briefly pressing the small button to the right of the display. The button should be pressed using a pencil or small screwdriver. The unit remembers the last setting when switched on/off.

#### Whole display flashes

Should the entire display flash when switched on, it may be reset by briefly pressing the button.

#### Resetting the energy display reading.

The energy reading increments continuously and is retained when the unit is switched off. Should you wish to reset the energy reading to zero, proceed as follows:

Press the button continuously until "Set Clr" appears on the display, continue pressing until, after a few more seconds, the energy reading starts flashing. Press the button briefly to set the energy reading to zero.

#### Voltage and Current Parameters

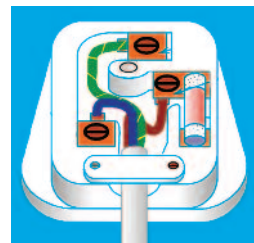
The unit operates on 220-260V a.c. at a maximum current of 20A.

#### IMPORTANT - ELECTRICAL SAFETY NOTICE

Connection to mains electricity supply. This apparatus is designed to safety class 1. Before connecting to the mains electricity supply, examine the information on the apparatus rating label. Ensure that the mains supply is single phase alternating current (a.c) of frequency 50Hz at 230V, with neutral nominally at earth potential.

#### WARNING - THIS APPARATUS MUST BE EARTHED

Your Irwin product should come with a plug with the recommended fuse rating. However if not fitted connect the wires to a non-reversible UK 3 pin plug as follows:



Green/Yellow wire to the terminal marked:  
Blue wire to terminal marked:  
Brown wire to terminal marked:

E (Earth) coloured Green/Yellow  
N (Neutral) or coloured Blue  
L (Live) or coloured Brown

**LIVE PARTS SHOULD NEVER BE EXPOSED UNLESS THE APPARATUS HAVE BEEN SWITCHED OFF AND ISOLATED FROM THE MAINS ELECTRICITY.**

#### Electromagnetic Compatibility

The use of this apparatus outside the classroom, laboratory, study area or similar such place invalidates the conformity with the protection requirements of the Electromagnetic Conformity Directive (89/336/EEC) and could lead to prosecution.

#### CORRESPONDENCE:

in the event of any correspondence concerning this apparatus, please contact your supplying agent quoting their catalogue number and serial number show on the apparatus. This will help us process your enquiry quickly. Any spare parts which may be required are supplied on the understanding that the replacement of those requiring the exposure of live electrical connections will be undertaken by an electrically qualified person.