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IPC Irwin Multitap Transformer

Part Number IPC-0484-P

User Instructions



INTRODUCTION.

The Multitap Transformer contains a general purpose low voltage isolating transformer, which can be used to provide power in many applications, such as electromagnetic kits, low voltage lamps, heating elements, ticker tape timers etc.

DESCRIPTION.

The unit provides tapped AC outputs of 0, 2, 3, 8 and 12VAC at currents up to 6A continuous or 8A for periods of up to 1 hour. The output voltages are supplied via five standard 4mm sockets radially spaced around a central 0V common socket. Additional outputs voltages of 1, 4, 5, 6, 9 and 10VAC can be selected by the choice of sockets used. For example, connecting between outer sockets such as the 3V and 8V sockets will provide an output of 5V.

An illuminated on/off switch is mounted on the rear panel adjacent to a fused IEC inlet socket and is housed in a robust metal case with a durable powder coated finish.

INSTRUCTIONS.

To power the unit simply connect the supplied IEC mains cable to the rear of the unit and switch it on using the illuminated mains rocker switch, located at the rear of the unit. Then connect your 4mm test leads to the appropriate 4mm socket for the required AC voltage. **Note:** please make sure that the test leads used are rated to at least 8 Amps.

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Should the mains on/off switch fail to illuminate and there is no output power from the unit, then first check the 1 Amp fuse at the rear of the unit (located in the mains IEC socket), if this is found to be intact then check the 5A fuse in the mains plug (if UK plug).

For a more accurate measurement of the AC output voltages a suitable voltmeter or multimeter should be employed.

SPECIFICATIONS.

Electrical Supply	= 220-240VAC, 50-60Hz
Fuse Ratings	= IEC Socket: 1 Amp (fast blow), Mains Plug: 5A
Mains Cable (Supplied)	= 2m Cable with IEC Plug and UK Mains Plug.
Dimensions	= 180 x 190 x 85mm overall.
Mass	= 3.3kg
AC Voltages (Standard)	= 0, 2, 3, 8 and 12VAC
AC Voltages (Additional)	= 1, 4, 5, 6, 9 and 10VAC
AC Output Current (Max.)	= 6 Amps (8 Amps up to 1 hour).

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

IMPORTANT - ELECTRICAL SAFETY NOTICE

Only connect the product to single phase mains electrical supply (with neutral nominally at each potential), also check that the supply voltage and frequency are within the products stated range. Before connecting to the mains electrical supply, examine the information on the products rating label (the value of the fuse fitted to the product is also stated), ensure that the mains plug or outlet circuit is fitted with an appropriate fuse of higher value.

WARNING: THIS PRODUCT MUST BE EARTHED

This product is designed for Electrical Safety Class 1.

If a mains lead is not fitted or supplied, connect the wires to a Standard UK, 3-pin plug as follows:-

Green/Yellow wire to the terminal marked: E (Earth) or coloured Green or Green/Yellow.

Brown wire to terminal marked: L (Live) or coloured Brown.

Blue wire to terminal marked: N (Neutral) or coloured Blue.

LIVE PARTS SHOULD NEVER BE EXPOSED UNLESS THE PRODUCT HAS BEEN SWITCHED OFF AND ISOLATED FROM THE MAINS ELECTRICITY SUPPLY.

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Declaration of Conformity (In Accordance with EN ISO 17050-1:2010).

Manufacturer: **IPC Irwin, Holker School, Cark-in-Cartmel, Grange-over-Sands, Cumbria, LA11 7PQ, United Kingdom.**

Product/Part No: **Multitap Transformer (230V AC, 50Hz main voltage)/IPC-0484-P**

This conformity certificate approves the compliance of the product with the essential safety requirements of the following UK Standards and Regulations:

SI 2005 No.1803	General Product Safety Regulation (implements Directive 2001/95/EC).
SI 2016/1101	Electrical Equipment (Safety) Regulation (implements Directive 2014 /35/EU.
EN 61010-1: 2010	Electrical Requirements for Laboratory Test & Measurement Equipment.
EN 61000-6-1: 2019	EMC, Generic Standards, Immunity for Residential, Commercial and Light Industrial Environments.
EN 61000-6-3: 2019	EMC, Generic Standards, Emission for Residential, Commercial and Light Industrial Environments.
SI 2012 No. 3032	Restriction on Hazardous Substances (RoHS) in Electrical and Electronic Equipment Regulation, (implements Directive 2011/65/EU).



Mark can be used only in the case of conformity assessment according to all relevant UK Standards and Regulations.

EU Declaration of Conformity (In accordance with European Parliament and Council Decision No: 768/2008/EC Annex III).

This conformity certificate approves the compliance of the product with the essential safety requirements of the following EC/EU Directives (Manufacturer, Product/Part No: as above).

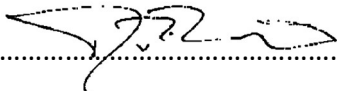
2001/95/EU	General Product Safety Directive.
2014/35/EU	Low Voltage Directive (LVD).
2014/30/EU	Electromagnetic Compatibility (EMC) Directive.
2011/65/EU	Restriction on Hazardous Substances Directive (RoHS).

European harmonised Standards used for conformity assessment and declaration:

EN 61010-1: 2010	Electrical Requirements for Laboratory Test & Measurement Equipment.
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Mark can be used only in the case of conformity assessment according to all relevant EC/EU Directives.

Dickon Knight (Director):  Date of Issue: 24th May 2023.

In the event of any correspondence concerning this product, please contact your supplying agent quoting the catalogue number and serial number shown on the apparatus rating label, together with the voltage and frequency of the mains electrical supply. This will help us to 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.

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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 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 or call our sales and technical support line on 015395 58555



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