Earth Strap Point
For attachment to the rack unit
This Unit Must Be Earthed

RED Neon Indicators
on the trip switches will show there is AC power in the unit. Should these be **Not Lit** then - 1st check the power is connected & none of the outputs are overloaded

16A Trip Switches for Channels A & B In the event of overload these will cut power to the 8 output sockets

Main AC~Input
Blue C-FORM 240V 32A IP44 Input Socket

Channel A AC~Output
Blue C-FORM 240V 16A IP44 Output Socket Via 16A Trip

Power Monitor
This panel displays Overall Voltage - Current - Power & Energy Level of **Channel B** Output Sockets

AC~Outputs
8 sockets 1 Front & 7 on the back panel with max combined load of 16A

UK STANDARD PLUG

To ensure safe reliable operation of electrical equipment, it is critical to use the correct fuse rating. A fuse should be slightly higher than the appliance/equipment normal operating current, preventing damage from overloads and surges.

Designed & Manufactured in the UK by Penn Elcom Ltd

9-10 Parsons Road, Parsons Industrial Estate, Washington Tyne & Wear, NE37 1HB, UK
0191 416 1717 or www.penn-elcom.com

PDU16 series

POWER DISTRIBUTION UNIT OPERATION & USER ADVICE

Please read the following information before installing or using your Power Distribution Unit

Safety and Grounding (earth)

- This PDU is intended for indoor use only.
- Do not install this PDU where excessive moisture or heat is present.
- Never install any wiring, equipment, or PDU's during a lightning storm.
- Always connect this PDU into a three-wire, grounded power outlet.
- The power input cable should be connected to appropriate branch circuit/mains protection (fuse or circuit breaker). Connection to any other type of power outlet may result in a shock hazard.
- Use only the supplied brackets for mounting.
- Never work alone under hazardous conditions.
- Check that the power cord, plug, and socket are in good condition.
- Disconnect the PDU from the power outlet before you install or connect equipment to reduce the risk of electric shock if you cannot verify grounding. Reconnect the PDU to the power outlet only after you have made all connections.
- Use a protective earth connector with equipment. This type of connector carries the leakage current from the load devices (computer equipment). Do not exceed a total leakage current of 3.5mA or a risk of electrical shock will result.
- Use the Stud Earth point on the front of the PDU to directly ground to the rack.
- ALWAYS make sure the equipment that has been connected to the PDU is **OFF**, before switching on the PDU, as the **Inrush Current** can blow the power fuse and activate the protection circuit.
- All equipment plugged into this unit should have the correct fuses fitted for their current draw.

- **Penn Elcom Ltd excepts no responsibility or liability for any equipment connected to this unit E&OE**

GUARANTEE

YOUR EQUIPMENT IS GUARANTEED FOR A PERIOD OF ONE YEAR FROM THE DATE OF PURCHASE OF THE PRODUCT AGAINST ANY DEFECTS DUE TO FAULTY MATERIALS OR FAULTY MANUFACTURING. DURING THIS PERIOD, REPLACEMENT OR REPAIR TO THE UNIT WILL BE MADE WITHOUT CHARGE BY ANY AUTHORISED DEALER OR THE FACTORY SUBJECT TO THE FOLLOWING CONDITIONS.

The fault must be entirely due to faulty materials or faulty manufacture.

*The defect must **NOT** have been caused by poor installation, accidental damage, misuse or failure to comply with the instructions given in the users guide.*

If at any time during the guarantee period a part or parts of the equipment are repaired with a part or parts not supplied or approved by us; or if the equipment has been dismantled or repaired by any person not authorised by the us, then the guarantee shall immediately cease and become void.

Evidence of the date of purchase must be produced at the service point to obtain the benefit of this guarantee. Any carriage charges relating to the guarantee will be the responsibility of the purchaser.

This guarantee applies to the original purchaser only and the equipment must have been purchased or financed from new, this guarantee cannot be assigned or transferred.

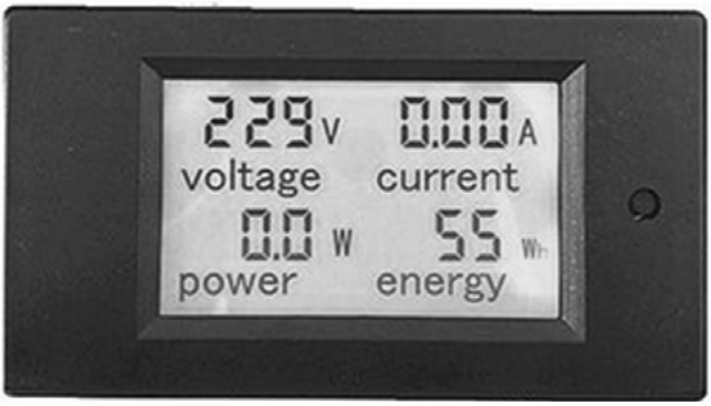
The company reserves the right to replace the equipment or repair it at their discretion, any defective part shall become the property of the company.

This guarantee applies to equipment purchased and used within the E.E.C. The importers of equipment in non E.E.C. countries are responsible for the guarantee of this unit. Parts required under guarantee are free. Shipping charges for components will be charged at cost.

The guarantee shall become void if the equipment is at anytime used on any supply circuit or voltage range other than that specified on the equipment.

12. THIS GUARANTEE DOES NOT IN ANY WAY AFFECT YOUR STATUTORY RIGHTS AS A CONSUMER.

POWER MONITOR DISPLAY



Functions

1. Electrical parameter measurement function (voltage, current, active power, energy)
2. Overload alarm function (over power alarm threshold, backlight and power flashing to alarm).
3. Power alarm threshold preset function (can set power alarm threshold).
4. The reset function of energy key.
5. Stores data when powered off.
6. Backlight function.

User Button Key Functions

1. Backlight Control: just press the button to turn on or off the backlight.
The backlight has a memory function and will store its state when powered off.

2. Energy Display Reset
A: Hold down the button for 5 seconds until the number in energy display section flashes, then release.

B: Push the button again, then once the energy value is cleared it will exit the reset. If you don't want to it to clear, then hold down the button for 5 seconds again until the number stops flashing, this means the energy value has not been cleared and it will reset.

3. Power Alarm Threshold
A: Hold down the button key until the LCD screen display shows "SET CLr", then release and to enter the setting mode

B: The Power section will display the current alarm value and the last digit should be flashing, To add plus 1, press down in 3 second intervals - the digital point will shift automatically

C: To finish setting, hold down the button for 5 seconds to store the settings and exit, the range of active power threshold is 0.0~22.0kW

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TRIP SWITCH APPENDIX

These products are fitted with thermal circuit breaker/power switches with indicator as a **fail safe** and should not be used to determine excessive current drawer. *These are not an **RCD** and do not function in the same way.*

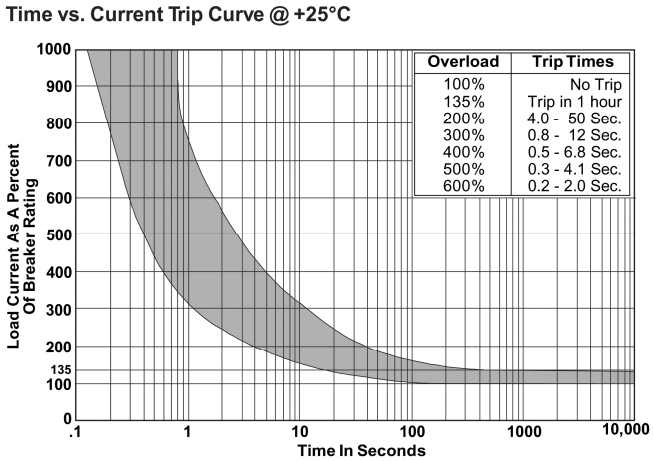
USERS OF THESE PDU'S SHOULD PRE-DETERMINE THE MAXIMUM SAFE LOAD AS INDICATED ON THE FRONT OF THE UNIT.

PLEASE NOTE: An RCD is a safety switch that protects people from electrical shock; a circuit breaker protects the wiring and electrical components attached to the unit.

In normal operation there will be peaks in the current draw and these switches allow for this, but will switch if the overload is continuous.

Technical Specification
Calibration: Will continuously carry 100% of rating.
May trip between 101% and 134%,
(they must trip at 135% of rating within one hour at +25°C
See Chart)
Dielectric Strength: 1,500VAC (60 seconds).
Insulation Resistance: 100 megohms.
Maximum Operating Voltage: 250VAC, 50/60 Hz.

These switches have the following certification approvals:
UL 1077 , VDE 0642/EN60934, CCC & CE compliant.



Penn Elcom Ltd excepts no responsibility or liability for any equipment connected to this unit

Declaration of Conformity

The Manufacturer of the Products covered by this Declaration is

Made in the UK by Penn Elcom
9-10 Parsons Road, Parsons Industrial Estate,
Washington Tyne & Wear, NE37 1HB, UK

The Directives covered by this Declaration

89/336/EEC Electromagnetic Compatibility directive, as amended
73/23/EEC Low Voltage Equipment directive, amended by 93/68/EEC

The Products Covered by this Declaration

PDU16-UK32

2U 19 inch Rack Mount PDU with Overload Protection & Power Monitoring

Usable Voltage 110V-240 VAC 50-60Hz - Max Output Power: 3500W - Max Current: 32A
Input= C-FORM 32A IP44 Panel Mount Sockets THROUGH LINK OUT
Output CH A = C-FORM 16A IP44 Panel Mount Socket with isolating16A Trip switch
Output CH B = 8 UK13A with a Maximum Combined Load 32A & isolating Trip Switch

The Basis on which Conformity is being Declared

The manufacturer hereby declares under his sole responsibility that the products identified above comply with the protection requirements of the EMC directive and with the principal elements of the safety objectives of the Low Voltage Equipment directive, and that the following standards have been applied:

All components used in this conform to current RoHS, CE & UL certification
(EMI:*EN55022 (CISPR22) Class B; EN61000-3-2,3* ***EMS:****EN61000-4-2,3,4,5,6,8,11; Light industry level, criteria A)*

The technical documentation required to demonstrate that the products meet the requirements of the Low Voltage Equipment directive has been compiled and is available for inspection by the relevant enforcement authorities.

The CE mark was first applied in: 2018
The UKCA mark was first applied in 2024

Signed:

Authority: Department Production Manager

Date: 05/11/2024

Attention!

The attention of the specifier, purchaser, installer, or user is drawn to special measures and limitations to use which must be observed when these products are taken into service to maintain compliance with the above directives. Details of these special measures and limitations to use are available on request and are also contained in the product manual.

E&OE