



## iREM Remotely Monitored PDU

iREM iPower APD (Accessible Power Distribution) is a single-phase Remote Energy Metering device that provides both local and remote readings over SNMP.

iREM will take the following measurements with an accuracy of 1%.

RMS Amps, Peak Amps, Volts AC, kVA, Kilowatts, Internal Temperature, Kg/CO<sub>2</sub>, BTU/h  
RSM Volts, Peak Volts, Amps AC, kWh, Power Factor, Consumption cost, kJ/H

It provides a thorough analysis of real time power usage across all connected devices and has an easy-to-use HTML interface with the ability to set SMS & Email alarms for all critical parameters.

iREM is configurable to suit individual requirements. It can be a PDU or an in-line device, to provide remote monitoring for legacy systems.

### Step by step on screen guide makes installation simple

Each of the inbuilt HTML pages contain full instructions to guide you through the setup process and explains how to set Traps and Alerts for critical parameters.

The screenshot shows the 'Measurements' page of the iREM web interface. The page has a navigation bar with 'Overview', 'Metering', 'Configuration', 'Logout', and 'Slave PDUs'. The main content area is divided into several sections:

- Measurements:** A table with columns for 'Low Alarm' and 'High Alarm'. Each row has a measurement name, a value in a green box, and units. The values are: Voltage (237.1 VAC), Current (3.92 Amps), Wattage (2.171 kW), Frequency (50.0 Hz), Power Factor (0.000 PF), and Temperature (40.50 C). The alarm thresholds are: Voltage (210.0, 265.0), Current (0.2, 40.0), Wattage (0.1, 5.0), Frequency (45.0, 60.0), Power Factor (0.100, 0.900), and Temperature (5.0, 50.0).
- Extended values:** A section with three columns: 'Peak Voltage' (328.1 VAC), 'Peak Current' (5.91 Amps), and 'kVA' (0.9294 kVA).
- Energy usage:** A section with four columns: 'kW/h' (0.3), 'BTU/h' (1023.6), 'kg/CO<sub>2</sub>' (0.2), and 'kJ/h' (1080.0). There is also a 'Cost (£)' field with a value of 0.0.
- Buttons:** 'Reset Energy' and 'Save Changes' buttons are located at the bottom right of the energy usage section.
- Help:** A 'Help' section on the right side of the page provides instructions on how to set alarm thresholds and reset energy values.

## PDU Agent™ Software - Consolidate all your readings with PDU Agent.

Entry level management platform with easy-to-use dash-board layout lets you log measurements and events from multiple products for historical evaluation and to collate and produce accurate billing information.

PDU Status view [Address: 192.168.0.33 Client: Client Name Location: Location Name]

**PDU Status**  
Name: PDU 1  
Status: **ONLINE** [DISABLE] [RESET]

**PDU Information**  
No. of ports: 12 Serial No.: None  
Address: 1 Firmware: 0.16.01

Meter 1 | Meter 2 | Meter 3 | Total Energy and Phase / Feed balance

**PDU Values**

Volts: 243.7V	Low Alarm: <input type="checkbox"/> 220	High Alarm: <input type="checkbox"/> 260	Low Alarm Email text: Meter 1 Volts low	High Alarm Email text: Meter 1 Volts high
Amps: 0.04A	<input type="checkbox"/> 0.1	<input type="checkbox"/> 32	Meter 1 Amps low	Meter 1 Amps high
kW: 0.007	<input type="checkbox"/> 0.1	<input type="checkbox"/> 10	Meter 1 kW low	Meter 1 kW high
Temp: 25.01C	<input type="checkbox"/> 10	<input type="checkbox"/> 50	Meter 1 Temp low	Meter 1 Temp high
PF: 0.671	<input type="checkbox"/> 0.2	<input type="checkbox"/> 0.999	Meter 1 PF low	Meter 1 PF high
Freq: 50.0Hz	<input type="checkbox"/> 45.0	<input type="checkbox"/> 55.0	Meter 1 Frequency low	Meter 1 Frequency high

**Energy Consumption**

kW/h: 47.8
BTU/h: 163100.292
kgCO2: 26.0032
kJ/h: 172080
Energy Cost: £7.17

**Phase and feed setup**  
Phase: Phase L1 | Feed: Feed A

Environmental | Security | Socket 1 | Socket 2 | Socket 3 | Socket 4 | Socket 5 | Socket 6 | Socket 7 | Socket 8 | Socket 9 | Socket 10 | Socket 11

**Environment**

Temp S1 | Humidity Sensor | Temp S2 | Temp S3 | Temp S4 | Temp S5 | Temp S6 | Temp S7 | Temp S8

Temperature: 0.00C | Low Alarm:  10 | High Alarm:  50 | Low Alarm Email text: Low temperature on 1 | High Alarm Email text: High temperature on 1

**Contact monitoring**

Input 1: OPEN	Trigger: NONE	Name: Input 1	Alarm trigger Email text: <input type="checkbox"/> Input 1 triggered	Alarm cleared Email text: <input type="checkbox"/> Input 1 cleared	[Clear Input]
Input 2: OPEN	NONE	Input 2	<input type="checkbox"/> Input 2 triggered	<input type="checkbox"/> Input 2 cleared	[Clear Input]
Input 3: OPEN	NONE	Input 3	<input type="checkbox"/> Input 3 triggered	<input type="checkbox"/> Input 3 cleared	[Clear Input]

[Save Settings] [Close]

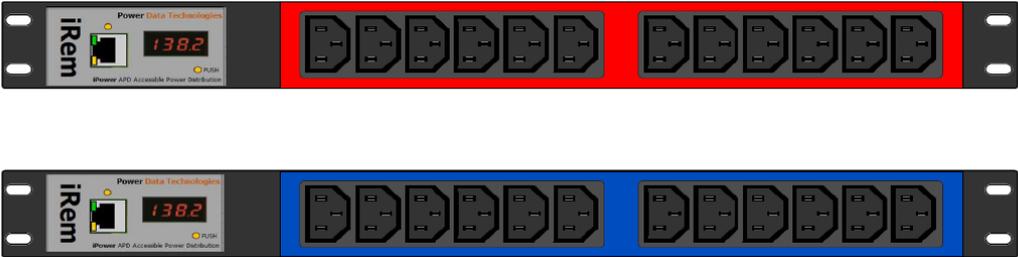
The simple display with a true RMS ammeter has a button to physically scroll through the energy metrics anytime when in the vicinity.



iREM products are manufactured in the UK, so we can offer bespoke products with a mix of sockets and plug inputs.

We offer a unique design service where we offer drawings prior to purchase making sure the client is getting their product fit and function.

NOT TO SCALE		PowerData Technologies iRem Remote Monitor PDU	
			
<p>PDT-527B-N3C Rating: 32A@240V Input: 3m 3x4mm H07 RNF cable to IEC309 32A Commando Protection: 2x 16A Thermal Trips</p>			
Body Dimensions:	55mm Wide 67mm Deep 985mm Long	Input:	3-metre 3x 4mmsq lead 32A commando
Fixing Centres:	1075mm	Output:	20x C13 and 4x C19
Material:	Extrusion/Mild Steel	Estimated weight:	3.5kg
Finish:	Black Powder coat	Standards:	Manufactured in accordance with BS EN 60950-1
Fixing Method:	End Brackets	WEEE:	Compliant
Protection:	2x 16A Thermal Trips	RoHS:	Compliant
Earthing:	M6 Earth Stud to end	CE:	Compliant
Rating:	32A	Max Op Temperature:	-10° to +50°C
<p><b>Drawing No. PDT-527B-N3C</b></p>			
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NOT TO SCALE		PowerData Technologies iRem Remote Monitor PDU	
			
Body Dimensions:	1U 150mm deep	Input:	3-metre 3x 2.5mmsq lead 16A commando
Fixing Centres:	1075mm	Output:	12x C13
Material:	Extrusion/Mild Steel	Estimated weight:	3.5kg
Finish:	Black Powder coat	Standards:	Manufactured in accordance with BS EN 60950-1
Fixing Method:	End Brackets	WEEE:	Compliant
Protection:	N/A	RoHS:	Compliant
Earthing:	M6 Earth Stud to end	CE:	Compliant
Rating:	16A	Max Op Temperature:	-10° to +50°C
<p><b>Drawing No. PDT-524-N3B</b></p>			
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Contact your local distributor for a quotation.