



✕ Remotely monitor individual socket electrical load

✕ Individual socket remote on/off control

✕ Embedded software

✕ Optional sensors

## Features

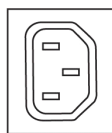
- Remotely monitor individual socket electrical load
- Embedded software
- Sequential socket power on/off
- Embedded web server accessed via web browser
- 12, 16, 20 & 24 Socket Versions
- IEC 320 C13 & C19, Schuko or BS1363 Socket Connectors
- Individual socket remote on/off control
- Optional sensors
- Socket on/off time configurable for each socket
- Link units for single IP address control
- Audible and email alerts
- Horizontal and Vertical versions

## Product Overview

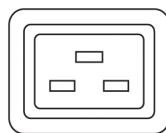
The Excel Intelligent Power Distribution Units - Managed (Managed PDU) allows superior monitoring and control via the Local Area Network (LAN) using a standard web browser (e.g. Internet Explorer, Firefox, Chrome, etc.). The software and web browser are housed within the unit enabling a simple LAN connection to be made without the requirement for any additional hardware. The introduction of the CRC Energy Efficiency Scheme Order 2010 will require the closer measurement of energy consumed. The Managed PDU will provide this while having the ability to receive Email and audible alerts following configurable threshold limits being broken. Multiple units may be linked together via infrastructure cabling thus requiring only one IP address for access and monitoring. The managed PDU allows individual control of each socket. This can be carried out either on a real time basis or by configuring a timed on/off. The managed PDU also allows for the sockets to be switched on/off sequentially to prevent power surge. The time interval of the sequencing is adjustable. The addition of sensors allows for the detection of Temperature/Humidity, Smoke, Water, Door Opening. The Managed PDU are available in a range of connector types and quantities.

Monitoring and control is via a web application on a web browser, SNMP or Telnet. The SNMP Management Information Base (MIB) files are supplied with the PDUs. Firmware and MIB file updates will be available for download from the Excel website [www.excel-networking.com](http://www.excel-networking.com).

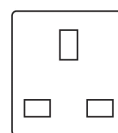
The Managed PDUs are offered with a choice of socket types to suit vertical mounting within cabinets or wall mounted. A horizontal 8 qty C13 + 4 qty C19 version is also available that is suited to the smaller, remote office installation.



IEC320 C13



IEC320 C19



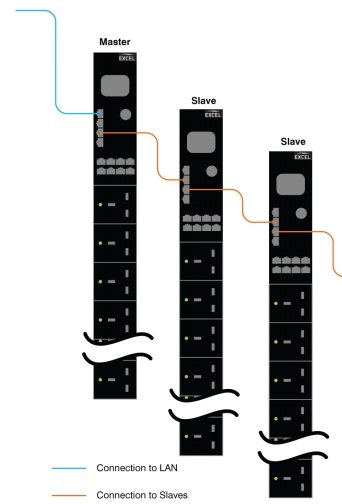
BS1363

## Configurations

The Excel Intelligent PDU may be connected together in two configurations. This allows for one LAN connection, and therefore one IP address, to control multiple Intelligent PDUs. The first Intelligent PDU is designated as the Master and the subsequent are designated as Slaves. All Intelligent PDUs may act as either a Master or a Slave. Up to 9 slave Intelligent PDUs may be connected to the master. They may be connected in a Daisy Chain or radially from an Excel PDU Hub.

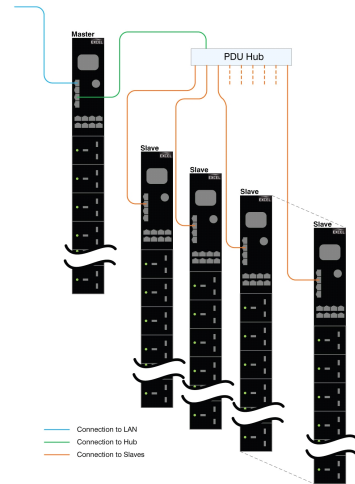
## Daisy Chain

Up to a maximum of 10 intelligent PDU's may be Daisy Chained together. The maximum length of each connection segment is 800m using a minimum of Excel Category 5e Cable and connecting hardware. The maximum length of the connection to the LAN is a channel of 100m in accordance with Ethernet application standards.



## Radial connection with Excel PDU Hub

The alternative method is to radially connect the Excel Intelligent PDU's with one acting as the master. This method also allows up to 10 intelligent PDU's together utilising one IP address on the network. The schematic below shows the layout. Similar to the 'Daisy Chain' above the connections to each of the Slaves may be a maximum of 800m. The inclusion of a PDU Hub has the benefit of maintaining connectivity with remaining intelligent PDU's in the case of a Slave Connection break.



Real time Monitoring	Total current Individual socket current load Individual on/off state System operating state Temperature / Humidity Smoke Water Door - open/closed
Real time Management	Power on/off individual sockets Sequential socket power on/off (time interval configurable) Time specific socket power on/off
Customer defined threshold values	Total current Temperature / Humidity
Alerts	Current limit exceeded System failure Smoke Water Door opening
Alert methods	PDU panel - light and audible Web page interface visual and audible Email alert SNMP
Access method	Web access via browser SNMP (V1/V2C/V3), access to control through standard network working station
Software	Embedded firmware. Updates available from <a href="http://www.excel-networking.com">www.excel-networking.com</a> Telnet, SSH, access to control through command controlling station
Input	Rated input voltage 220V-50/60 Hz Input terminal type IEC60309 16A or 32A* Cable length 3 m Max current rating 16A or 32A*

Output rating	IEC320 C13	10A 250V
	IEC320 C19	16A 250V
	Schuko	16A 250V
	BS1363	13A 250V
Sensor ports**	Temperature / Humidity	3
	Smoke	1
	Water	1
	Door open/closed	2

\* See part number table for input current rating and connector.

\*\* Sensors sold separately, see accessories below.

8 Way C13 + 4 Way C19	482.6 mm	44.4 mm (1U)	216 mm	3 m	16A
12 Way C13 + 4 Way C19	88.8 mm	1387 mm	44.4 mm	3 m	16A
16 Way C13 + 4 Way C19	88.8 mm	1644 mm	44.4 mm	3 m	32A
20 Way C13 + 4 Way C19	88.8 mm	1876 mm	44.4 mm	3 m	32A
16 Way BS1363	88.8 mm	1363 mm	44.4 mm	3 m	16A
20 Way BS1363	88.8 mm	1620 mm	44.4 mm	3 m	32A
24 Way BS1363	88.8 mm	1852 mm	44.4 mm	3 m	32A

## Part Number Information

Part No.	Description
555-210	Intelligent PDU Managed 8 Way C13 + 4 Way C19 with 16A IEC60309 plug - Horizontal
555-211	Intelligent PDU Managed 12 Way C13 & 4 Way C19 with 16A IEC60309 plug - Vertical
555-212	Intelligent PDU Managed 16 Way C13 & 4 Way C19 with 32A IEC60309 plug - Vertical
555-213	Intelligent PDU Managed 20 Way C13 & 4 Way C19 with 32A IEC60309 plug - Vertical
555-214	Intelligent PDU Managed 16 Way Schuko with 16A IEC60309 plug - Vertical
555-218	Intelligent PDU Managed 20 Way Schuko with 32A IEC60309 plug - Vertical
555-219	Intelligent PDU Managed 24 Way Schuko with 32A IEC60309 plug - Vertical
555-215	Intelligent PDU Managed 16 Way BS1363 with 16A IEC60309 plug - Vertical
555-216	Intelligent PDU Managed 20 Way BS1363 with 32A IEC60309 plug - Vertical
555-217	Intelligent PDU Managed 24 Way BS1363 with 32A IEC60309 plug - Vertical

## Accessories

Part No.	Description
555-220	Intelligent PDU Hub
555-221	Intelligent PDU Temperature/Humidity Sensor
555-222	Intelligent PDU Smoke Sensor
555-223	Intelligent PDU Water Logging Sensor
555-224	Intelligent PDU Door Sensor

## Ecl-ips

Waterside House, Harris Business Park, Stoke Prior, Bromsgrove, Worcestershire, B60 4DJ, United Kingdom

Tel: 01527872000 Fax: 01527574784

Email: [sales@ecl-ips.com](mailto:sales@ecl-ips.com) Web: [www.ecl-ips.com](http://www.ecl-ips.com)

