Excel Intelligent Power Distribution Units - Monitored

X Remotely monitor total electrical load

X Embedded software

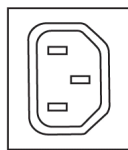X Optional sensors

Features

- Remotely monitor total electrical load
- Optional sensors
- Link units for single IP address control
- IEC 320 C13 & C19, Schuko or BS1363 Socket Connectors
- Embedded software
- Embedded web server accessed via web browser
- 16, 20 & 24 Socket Versions
- Audible and email alerts
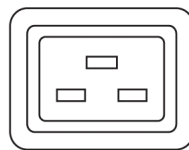- Vertical mounting within cabinet or to wall

Product Overview

The Excel Intelligent Power Distribution Units – Monitored (Monitored PDU) allows the total electrical current to be measured 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 monitored 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 addition of sensors allows for the detection of Temperature/Humidity, Smoke, Water, Door Opening. The monitored PDU are available in a range of connector types and quantities.

Monitoring 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
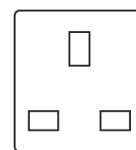
The Monitored PDUs are offered with a choice of socket types to suit vertical mounting within cabinets or wall mounted.

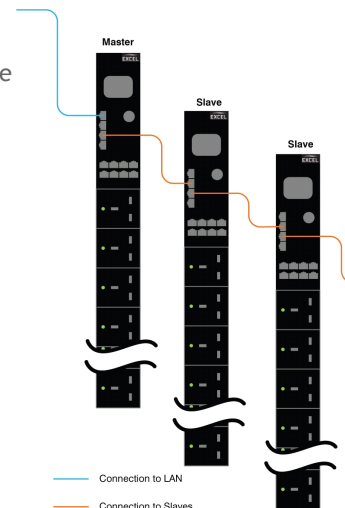IEC320 C13   IEC320 C19   BS1363

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.
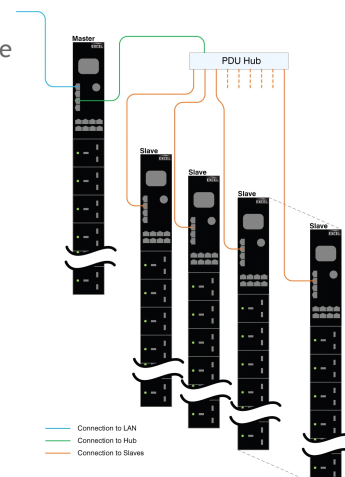
Daisy Chain

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.

Connection to LAN
Connection to Slaves

Radial connection with Excel PDU Hub

The alternative method is to redially 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.

Connection to LAN
Connection to Hub
Connection to Slaves

Real time Monitoring	Total current	
	System operating state	
	Temperature / Humidity	
	Smoke	
	Water	
	Door – open/closed	
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 www.excel-networking.com	
	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.

Dimensions

	Width	Height	Depth	Cable Lengh	Input Plug
12 Way C13 + 4 Way C19	88.8 mm	1388.2 mm	44.4 mm	3 m	16A
16 Way C13 + 4 Way C19	88.8 mm	1645.6 mm	44.4 mm	3 m	32A
20 Way C13 + 4 Way C19	88.8 mm	1878 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
555-201	Intelligent PDU Monitored 12 Way C13 & 4 Way C19 with 16A IEC60309 plug - Vertical
555-202	Intelligent PDU Monitored 16 Way C13 & 4 Way C19 with 32A IEC60309 plug - Vertical
555-203	Intelligent PDU Monitored 20 Way C13 & 4 Way C19 with 32A IEC60309 plug - Vertical
555-204	Intelligent PDU Monitored 16 Way Schuko with 16A IEC60309 plug - Vertical
555-208	Intelligent PDU Monitored 20 Way Schuko with 32A IEC60309 plug - Vertical
555-209	Intelligent PDU Monitored 24 Way Schuko with 32A IEC60309 plug - Vertical
555-205	Intelligent PDU Monitored 16 Way BS1363 with 16A IEC60309 plug - Vertical
555-206	Intelligent PDU Monitored 20 Way BS1363 with 32A IEC60309 plug - Vertical
555-207	Intelligent PDU Monitored 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

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