

KWX-N32A20UK-V4



KWX-N32A20UK-V4 - 0U 20 port (BS1363) Unit Monitoring, Individual Outlet Monitoring and Switching Power Distribution Unit.

PDU eXperts KWX-Network series is the latest generation of Intelligent power distribution units designed and manufactured to meet the demands of today's data center and telecommunications equipment.



Dimensions: 1738mm x 45mm x 58mm (L x H x W)

Mounting length: 1784mm

"The most innovative PDU on the market"

Key Features

- Total Power Monitoring, Individual outlet monitoring & switching (on/off)
- Adjustable sequential powering
- Hot swappable network card
- Total current monitoring
- Total voltage input & output monitoring
- Total kWh used
- Power factor recognition
- Up to 55°C Hot aisle operating capacity
- SMS, SNMP & Email
- Built in environmental monitoring as standard
- Temperature & humidity alarm sensor
- Water logging alarm sensor
- Rack door tamper sensor
- Infrared sensor
- Smoke detector
- Automated alarm notifications
- Up to 8 plug and play sensors
- Lockable IEC C13 sockets as standard
- Blade server ready
- Intelligent outlet type and recognition
- 24v & 48v DC, Single phase 120v & 240v & 3 phase 400v
- Effortless user friendly PDU management interface
- Control up to 3 KWX slaves from a master KWX PDU
- 20x BS1363 13A UK sockets
- 1x IP44 32A Commando connector



KWX Network series

Intelligent remote monitoring PDUs

The KWX series offers a range of power monitoring and switching capabilities combined with built in local environmental monitoring software, providing real time power consumption of the total current load and voltage of the PDU and individual outlets (dependent on version), which is accessible via the user friendly PDU eXperts PDU management interface.



PDU eXperts intelligent KWX-PDU management software enables the administrator to give designated users predetermined control over whole PDUs or even single outlets over a range of PDUs. Users have the ability to monitor and control directly through the PDUs network module on site, or remotely using our embedded multi-threading inner core "Real time operating systems" (RTOS) software.

The management software is accessible within the data centers secure hardwired network supporting various TCIP/IP protocols, including HTTP, HTTPS, SSL, SNMP versions 1,2 & 3, TELNET, SSH, SMTP and NTP.

KWX Network intelligent PDUs are available in a range of vertical and 19" horizontal rack mounting options, with a variety of outlets including slide lock IEC C13 as standard, IEC C19, UK BS1363, NEMA (5-15), SCHUKO (EEC 7/4). Input/load connectors options include single phase 16A / 32A and 3 Phase IP44 Commandos.

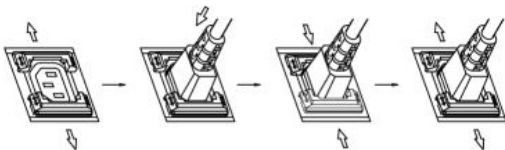
N1 – PDU total power monitoring – Provides real time power consumption (current / voltage), total power (kW) used, apparent power and power factor.

N2 – Individual port power monitoring – Provides real time PDU power consumption & the current on individual ports, total power (kW) used, apparent power and power factor.

N3 – PDU monitoring & individual port switching – Provides real time power consumption, total power (kW) used, apparent power and power factor. Each individual port/outlet is also switchable (ON / OFF)

N4 – PDU and per port power monitoring and switching – Complete power monitoring and switching (ON / OFF) of the PDU and each individual port, total power (kW) used, apparent power and power factor.

Feature	Function	N1	N2	N3	N4	
Monitor functions	LED Display	Total & individual port current load	✓	✓	✓	✓
		Overload flashing LED alarm	✓	✓	✓	✓
		PDU IP address, version number	✓	✓	✓	✓
	Management software / Hyper terminal	Total current load	✓	✓	✓	✓
		Monitors current load per port	✗	✓	✗	✓
		Input voltage	✓	✓	✓	✓
		Configure low/high voltage limits	✓	✓	✓	✓
		Configure low/high current limits	✓	✓	✓	✓
Control functions	PC Control	Sensor(s) state (optional)	✓	✓	✓	✓
		Power ON/OFF individual ports	✗	✗	✓	✓
		Power ON/OFF PDU	✗	✗	✓	✓
		Intelligent setup memory on restart	✗	✗	✓	✓
Access methods	RS485 port	✓	✓	✓	✓	
Daisy chain connections	Serial connection	✓	✓	✓	✓	
	Radial connection	✓	✓	✓	✓	



Lockable IEC C13 outlets

All KWX PDUs come with lockable IEC C13 outlets as standard.

KWX-Network Series Interface

The KWX PDU management software has an effortless interface giving easy access to the master ATS unit and any of its slaves (up to 4 KWX PDU units *(requires network switch)*). The interface allows multiple users to not only monitor the power usage, but also set input/output thresholds (depending on version), if these parameters are exceeded KWX PDU units engage both visual and audible alarms, these alarms can also be configured to be sent via SMS or Email to designated users.

Each KWX PDU is given a default IP address which can be changed by the administrators to meet your networks requirements and can be accessed via most popular browsers such as Internet Explorer, Google Chrome, Edge, Fire fox etc.

Real time Total Power usage

Monitor individual outlets

Configure user accounts and email alarm notifications

Real time event log including alerts, user logins and reboots.

KWX-N Series environmental monitoring.

PDU eXperts KWX-Network series is complete with built in environmental monitoring software, with up to 8 'plug n play' sensors (optional) to monitor the server rack or data centers direct environment conditions (temperature & humidity sensor, smoke detector or water logging sensor) or add additional security (door tamper sensor or infrared sensor).

The environmental monitoring is accessible via the management software and includes individual user permissions, threshold settings and alarm notifications. It is an ideal system for small data centers, although often used as an addition to pre-installed systems in larger data centers.



Temperature/
Humidity Sensor



Water Logging
Sensor



Infrared Sensor



Smoke Sensor



Door Sensor



Cascade up to 8 plug 'n' play
environmental sensors to
security and peace of mind



KWX network series specifications

Feature	Description	Function / Parameter	Note
Working Voltage	Normal conditions	90V-250V AC	
Input/output current	Max input/output current	10A / 16A	
Working frequency	Normal conditions	47Hz-60Hz	
Access ports	Network	Network port WAN or LAN access	10/100Mb adaptive networking
	Serial	Serial port	RS485 port
	Sensors	Sensor ports	RS485 port
Data / management access	HTTP/HTTPS	Web browser access	Internet Explorer, Google Chrome, Edge, Fire fox etc.
	Telnet	Simple command line	/
	SSH	Encryption command	SSH v2 supported
	SNMP	SNMP centralised monitoring	SNMP v1, v2, & v3
System capability	Supported by various popular operating systems	Windows 7 /8 /8.1 /10 & Linux etc.	
	System integration	TELNET / SSH protocol	
	RS485 connection	Customized protocol	
Software/Firmware Update / Upgrade	Software / firm ware updates	Via web site / Support technician	
	BIOS Firmware updates (if necessary)	Support technician	
Alarm setting thresholds	Total current limits (low / high)	Automatic detection & automated SMS / Email notifications	
	Temperature limits +/-		
	Humidity limit		
LED indicators / Display	Outlet led indicators	LED indicator per outlet	Optional
	6 digit /7 segment display	Nixie tube Display shows: current / voltage. Product information. Alarm information	
Network module features	Provides PDU information	Displays PDU serial number and working voltage, current power usage and alarm information	
	Audio sound alerts	Sounds when PDU is powered ON/OFF	
Management software	User/Administrator account settings	Set access permissions for multiple users over multiple PDUs \ outlets	
	Outlet settings	Set thresholds per port or group of ports	
	Alarm notifications	Configure SMS and Email notifications when thresholds are exceeded	
	Control / monitor multiple PDUs from master PDU	Up to 31 slave PDUs can be controlled and monitored via a single master PDU	
	Power ON / OFF Scheduling	Set singular or repeating events, per hour/ day / month / year	
	Event log	Real time event record (displays exceeded thresholds, user logins and activities)	
Outlet features	Sequential power ON / OFF	Adjustable sequential power on intervals are 1-250 seconds, power off is 0.5 seconds	
	Intelligent status holding	Power /PDU settings are retained after a restart	
	Surge protection	Circuit breaker added whole PDU or a group of ports	Optional

KWX network series specifications cont..

Feature	Description	Function / Parameter	Note
Monitoring abilities	Input voltage	Scale: 1V Accuracy: $\pm 1\% + 1$ digit Meter range: 90V-350V	
	Total current	Scale: 0.1A Accuracy: $\pm 1\% + 1$ digit Meter range:	
	Total kWh usage	Scale: 0.1 kWh Accuracy: 1 grade	
	Environment temperature	Resolution: 1°C Accuracy: $\pm 1\% + 1$ digit Meter range: -30°C - 100°C	Optional
	Environment humidity	Scale: 1% Accuracy: $\pm 1\% + 1$ digit Meter range: 1%-99%	Optional
	Smoke detector	Up to 25m ² range	Optional
	Infrared sensor	16m range	Optional
	Water logging sensor	Water logging / drop monitor	Optional
	Door tamper sensor	5mm leeway	Optional
	Surge protection failure	Automated notification	Optional
Outlet / port & sensor alarms	Fuse failure	Sound alarm (buzzer) Remote alarm: Email, SMS, SNMP TRAP & management software	Optional
	Current threshold		Optional
	Temperature threshold		Optional
	Humidity threshold		Optional
	Smoke detector		Optional
	Door tamper sensor (open)	Remote alarm: Email, SMS, SNMP TRAP & management software	Optional
	Surge protection failure		Optional
	Infrared sensor		Optional
Hardware protection	Surge protection	Difference mode: ± 2 kV Common mode: ± 2 kV Flux: 3kA Discharge current: 5kA (max)	Optional
	Each port fused	Breaking capacity: 1500A Main line break protection Fuse range: 0.1A - 16A/32A (depending on model)	Optional
	Circuit breaker	Breaking capacity 6000A	Optional
Intelligent recognition	Outlets / Ports	Automatic outlet type & port number recognition	
	Environment sensors	Automatic sensor type and port recognition	
	Power thresholds	Auto detect when threshold are exceeded	
	Current and total power usage	Real time record of current and total power usage	
	Power factor	Real time power factor usage	
Sensor modules (option)	Up to 8 plug 'n' play sensor modules	Flexibility of sensor choice	Optional
Multiple PDU cascading	Up to 4 slave PDUs can be controlled and monitored via a single master PDU	Connect via network cable (RJ485 ports)	