KWX-ATS32A8x2-H4 (ATS4)

PDUe



KWX-ATS32A8x2-H4 - 1U 32Amp (A & B Input), 10port (8 x lockable IEC-C13 & 2 x 19) Provides Individual Outlet Level Monitoring and Switching. 19" rack mountable intelligent automatic transfer switch.

PDU eXperts KWX Automatic Transfer Switches (ATS). Seamlessly switch loads between primary and backup power sources, this combined with real time power monitoring and built in environmental monitoring makes it one of the most advanced transfer switches on the market.



Dimensions: 440mm x 45mm x 330mm (W x D x L)

Mounting length: 483mm

"The most innovative automatic transfer switch on the market"

Key Features

- Total Power Monitoring, Individual outlet monitoring & switching (on/off)
- Adjustable sequential powering (on)
- 8 millisecond Switch over
- 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
- o Temperature & humidity alarm sensor
- o Water logging alarm sensor
- o Rack door tamper sensor
- o Infrared sensor
- o 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-ATS slaves from a master KWX-ATS
- 2x IP44 32A Commando inputs
- 8x IEC C13 (lockable) & 2x IEC C19 outputs



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Innovation in Power Manufacturing



KWX-ATS series Intelligent Automatic Transfer Switches

In the event where the primary power source becomes unavailable, the KWX ATS will flawlessly source power from the secondary source without interrupting sensitive equipment, the switching occurs in just 8ms safely between the two input sources regardless of their phase.





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

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

KWX Automatic Transfer Switches are available in a range 19" horizontal rack mounted 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.

LED Display

Management

terminal

software / Hyper

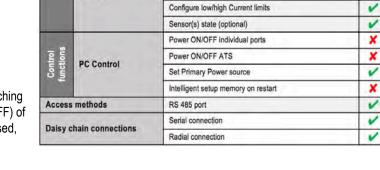
Feature

ATS1 – ATS total power monitoring – Provides real time power consumption (current / voltage), total power (kW) used, apparent power and power factor.

ATS2 – Individual port power monitoring – Provides real time ATS power consumption & the current on individual ports, total power (kW) used, apparent power and power factor.

ATS3 – ATS 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)

ATS4 – ATS and per port power monitoring and switching – Complete power monitoring and switching (ON / OFF) of the ATS and each individual port, total power (kW) used, apparent power and power factor.



Function

Total & individual port current load

Overload flashing LED alarm

Total current load

Input voltage

ATS IP address, version number

Monitors current load per port

Configure low/high voltage limits

Slide locking IEC C13 outlets

All KWX-ATS units come with lockable IEC C13 outlets as standard.

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PDUe

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01/01/2000 00:24:02

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01/01/2000 00:23:57 ATS

Clear All Logs Export All Logs

SNMP Email

ATS

laintain

Users

Upload Reboot

Susten

ATS

ATS

ATS ATS

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ATS

ATS

ATS ATS Volt

B->A (A0132E/Power1)

A->B (A0132E/Power1)

A->B (A0132E/Power1) B->A (A0132E/Power1) A->B (A0132E/Power1) B->A (A0132E/Power1)

A->B (A0132E/Power1)

B->A (A0132E/Power1)

A->B (A0132E/Power1)

B->A (A0132E/Power1) B Voltage(A0132E/Pow

A->B (A0132E/Power1)

B->A (A0132E/Power1)

A->B (A0132E/Power1)

First Prev 1 . Next Last

Volt. Lower; A: 0; 8: 0 Volt. Lower; A: 0; 8: 0 Volt. Lower; A: 0; 8: 0 Volt. Lower; A: 214; 8: 0

Volt. Lower; A: 0; B: 176

Volt, Lower: A: 0: B: 0

Volt. Lower: A: 0: B: 0

Volt. Lower; A: 0; 8: 0 Lower: 188(190-260)

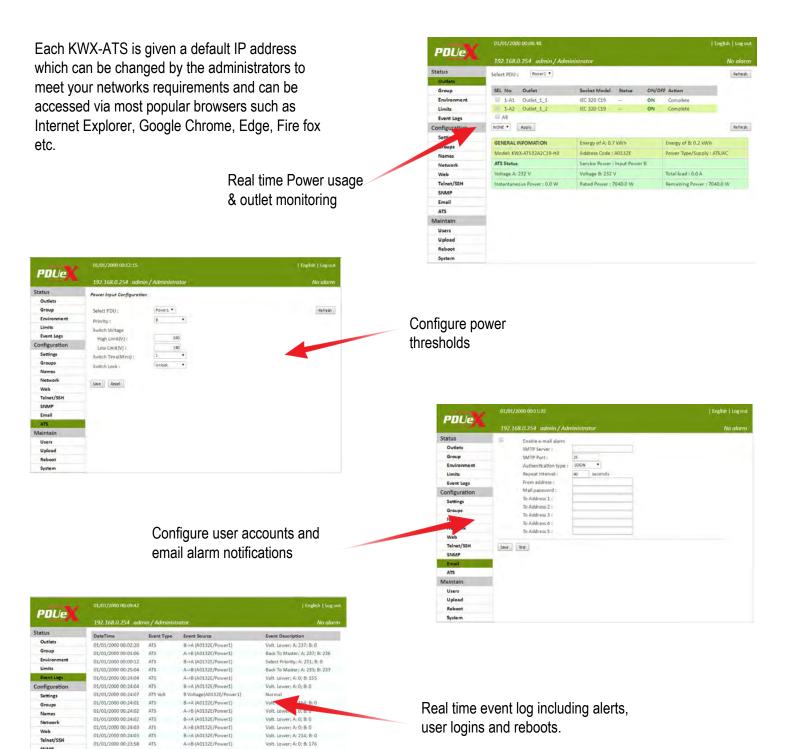
Volt. Lower; A: 0; 8: 139

Volt. Lower; A: 0; B: 0

Volt. Lower: A: 0: B: 0

KWX-ATS Series Interface

The KWX-ATS management software has an effortless interface giving easy access to the master ATS unit and any of its slaves (up to 3 KWX-ATS units). 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-ATS units engage both visual and audible alarms, these alarms can also be configured to be sent via SMS or Email to designated users.



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



KWX-ATS Series environmental monitoring.

PDU eXperts KWX-ATS 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 Sense





Infrared Sensor





Smoke Sensor



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





KWX-ATS 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	
nt	HTTP/HTTPS	Web browser access	Internet Explorer, Google Chrome, Edge, Fire fox etc.	
Data / management access	Telnet	Simple command line	1	
Daí anag acc	SSH	Encryption command	SSH v2 supported	
٤	SNMP	SNMP centralised monitoring	SNMP v1, v2, & v3	
		Supported by various popular operating systems	Windows 7 /8 /8.1 /10 & Linux etc.	
System capability		System integration	TELNET / SSH protocol	
	RS485 connection Customized protocol Software / firm ware undered Via web site / Support technician		Customized protocol	
Software	/Firmware	Software / firm ware updates	Via web site / Support technician	
Update /	Upgrade	BIOS Firmware updates (if necessary)	Support technician	
		Total current limits (low / high)		
Alarm se	etting thresholds	Temperature limits +/-	Automatic detection & automated SMS / Email notifications	
		Humidity limit		
		Outlet led indicators	LED indicator per outlet	Optional
LED INdi	cators / Display	6 digit /7 segment display	10A / 16A 47Hz~60Hz 10/100Mb adaptive networking RS485 port RS485 port Internet Explorer, Google Chrome, Edge, Fire fox etc. / SSH v2 supported SNMP v1, v2, & v3 Windows 7 /8 /8.1 /10 & Linux etc. TELNET / SSH protocol Customized protocol Via web site / Support technician Support technician Automatic detection & automated SMS / Email notifications	
Network	module features	Provides ATS information	90V~250V AC 10A / 16A 47Hz-60Hz 10/100Mb adaptive networking RS485 port RS485 port Internet Explorer, Google Chrome, Edge, Fire fox etc. / SSH v2 supported SNMP v1, v2, & v3 Windows 7 /8 /8.1 /10 & Linux etc. TELNET / SSH protocol Customized protocol Via web site / Support technician Support technician LED indicator per outlet Nixie tube Display shows: current / voltage. Product information. Alarm information Displays ATS serial number and working voltage, current power usage and alarm information Set access permissions for multiple users over multiple ATS \outlets Set thresholds per port or group of ports Configure SMS and Email notifications when thresholds are exceeded Up to 3 slave ATS can be controlled and monitored via a single master ATS Real time event record (displays exceeded thresholds, user logins and activities) Adjustable sequential power on intervals are 1~250 seconds Power ATS settings are retained after a restart	
		Audio sound alerts		
		User/Administrator account settings	Internet Explorer, Google Chrome, Edge, Fire fox etc. / SSH v2 supported SNMP v1, v2, & v3 Windows 7 /8 /8.1 /10 & Linux etc. TELNET / SSH protocol Customized protocol Via web site / Support technician Support technician Automatic detection & automated SMS / Email notifications LED indicator per outlet Nixie tube Display shows: current / voltage. Product information. Alarm information Displays ATS serial number and working voltage, current power usage and alarm information Sounds when ATS is powered ON/OFF Set thresholds per port or group of ports Configure SMS and Email notifications when thresholds ar exceeded Up to 3 slave ATS can be controlled and monitored via a single master ATS Real time event record (displays exceeded thresholds, use logins and activities) Adjustable sequential power on intervals are 1~250	
		Outlet settings		
Management software		Alarm notifications	exceeded	
	Control / monitor multiple ATSs from master ATS	single master ATS		
	Event log Event	logins and activities)		
		Sequential power ON / OFF		N3/N4 only
Outlet features		Intelligent status holding	Power ATS settings are retained after a restart	N3/N4 only
		Surge protection	Circuit breaker added whole ATS	Optional



Specifications continued

Feature	Description	Function / Parameter	Note
	Input voltage	Scale: 1V Accuracy: ± 1% + 1 digit Meter range: 90V~350V	
	Total current	Scale: 0.1A Accuracy: ± 1% + 1 digit Meter range:	
	Total kWh usage	Scale: 0.1 kWh Accuracy:1 grade	
Monitoring abilities	Environment temperature	Resolution: 1°C Accuracy: ± 1% + 1 digit Meter range: -30°C ~ 100°C	Optional
Monitoring abilities	Environment humidity	Scale: 1% Accuracy: ± 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
	Fuse failure		Optional
	Current threshold	Sound alarm (buzzer) Remote alarm: Email, SMS, SNMP TRAP & management software	Optional
	Temperature threshold		Optional
	Humidity threshold		Optional
Outlet / port & sensor alarms	Smoke detector		Optional
	Door tamper sensor (open)	Remote alarm: Email, SMS, SNMP TRAP & management	Optional
	Surge protection failure		Optional
	Infrared sensor software		Optional
	Surge protection	Difference mode: ±2kV Common mode: ±2kV Flux: 3kA Discharge current: 5kA (max)	Optional
Hardware protection	Each port fused	Breaking capacity: 1500A Main line break protection Fuse range: 0.1A ~ 16A/32A (depending on model)	Optional
	Circuit breaker	5mm leeway Automated notification Sound alarm (buzzer) Remote alarm: Email, SMS, SNMP TRAP & management software Difference mode: ±2kV Common mode: ±2kV Common mode: ±2kV Flux: 3kA Discharge current: 5kA (max) Breaking capacity: 1500A Main line break protection Fuse range: 0.1A ~ 16A/32A (depending on model) Breaking capacity 6000A Automatic outlet type & port number recognition Automatic sensor type and port recognition Auto detect when threshold are exceeded	Optional
	Outlets / Ports	Sound alarm (buzzer) Remote alarm: Email, SMS, SNMP TRAP & management software Difference alarm: Email, SMS, SNMP TRAP & management software Difference mode: ±2kV Common mode: ±2kV Flux: 3kA Discharge current: 5kA (max) Breaking capacity: 1500A Main line break protection Fuse range: 0.1A ~ 16A/32A (depending on model) Breaking capacity 6000A Automatic outlet type & port number recognition Automatic sensor type and port recognition	
	Environment sensors	Automatic sensor type and port recognition	
Intelligent 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 6 plug 'n' play sensor modules	Flexibility of sensor choice	Optional
Multiple ATS cascading	Up to 3 slave ATS can be controlled and monitored via a single master ATS	Connect via network cable (RJ485 ports)	