16 and 32 Amp PanView iQ™ (PViQ™) Switched and Environmental Power Outlet Units

PANDUIT®

SPECIFICATION SHEET

specifications

PViQ™ Power Outlet Units shall integrate with the Panduit® PIM™ Software Platform to enable intelligent management of the in-cabinet power usage. This system helps to quickly identify and resolve power issues, find and reclaim available or underutilized power capacity and automate collection of real-time and accurate power information. The units shall have the ability to power cycle individual outlets or a group of outlets on or off to reboot equipment. They shall have remote monitoring for power consumption and environmental capability to monitor temperature, airflow, humidity or dew point. The units shall mount vertically to the Net-Access™ Cabinets, Net-SERV® Cabinets or Panduit 4 post racks. The vertical power outlet units shall have 16 and 32 amp circuits, which have multiple outlet options with standard IEC compliant receptacles. Power outlet units shall have a black power coated finish and included a 10 foot cord utilizing IEC style plugs. Installed units shall allow quick and easy firmware updates.

technical information

Dimensions:	QS1D2Q0BA2401:	66.3"H x 2.5"W x 2.3"D (1683mm x 64mm x 57mm)
	QS1D2A0BA2401:	66.3"H x 2.5"W x 2.3"D (1683mm x 64mm x 57mm)
	QS1D2P3BN2491:	72.0"H x 2.5"W x 2.3"D (1829mm x 64mm x 57mm)
	QS1D2B2BN24AA1:	70.0"H x 2.5"W x 2.3"D (1778mm x 64mm x 58mm)
	QS1D2P3BN2401:	72.0"H x 2.5"W x 2.3"D (1829mm x 64mm x 57mm)
Power outlet unit mounting:	Vertical power strips provide multiple outlets and do not occupy any rack spaces	
Power outlet unit packaging:	All power outlet units include three meter power cords, mounting brackets, screws, and tool-less button mounting	

key features and benefits

Remote switching capability	Power cycle individual outlets or a group of outlets on or off to reboot equipment or power off individual outlets to stop unauthorized use
Time delay sequencing	Avoids circuit overload due to high in-rush current at equipment start up
Remote access to power consumption data	Web-based GUI provides global network access to real time power information to improve data center energy efficiency and reduce operating costs through analysis of power usage and trends
Integrates with Panduit® PIM™ Software	Aggregates power and environmental information through a single web based GUI to facilitate easy analysis of data
Environmental monitoring	Measure in-cabinet temperature, humidity, airflow, and dew point remotely to prevent environmental factors that can cause equipment to overheat or malfunction
Alarm messaging capability	Provides user-defined alarm/messaging capabilities for specific events that exceeded thresholds to help minimize network downtime
Locking IEC receptacles	Support and retain any standard IEC power cords preventing unintentional power loss
Certification/agency approvals	Complies with IEC 60950-1, EN 55022, EN 55024 and CE Marked
Integrated power	On board display has 2 line x 8 character LED providing real-time power consumption at the power strip
Outlet status	Each outlet has a green LED for indication if the outlet is on or off for easy visual identification

applications

Panduit® PViQ™ Switched Power Outlet Units can either be utilized standalone for smaller installations or seamlessly feed information directly into the Physical Infrastructure Manager™ (PIM™) Software Platform for larger data centers. The PViQ™ POUs provide continuous real-time power and environmental monitoring via the network for enhanced system management and reliability.

The PViQ™ POUs safely and efficiently manage and distribute power to allow multiple pieces of equipment to share a single power connector to enhance scalability of network build outs. Mounting flexibility allows quick and easy installation and when used with Panduit Net-Access™ and Net-SERV® Cabinets the user receives a complete networking solution that will satisfy data center requirements today and into the future.

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PIM™ Software Platform and Modules

Base functionality module:	PIM-BASE
Power module:	PIM-POWER

PViQ™ C14 Power Cord Adapters

US:	PVQ-C14ADPTR-S
Japan:	PVQ-C14ADPTR-J

Vertical 3~ WYE, 230/400V, 16A, 21 IEC-13 and 3 IEC-19 Locking Receptacles

Phase monitoring (X,Y,Z):	QS1D2Q0BA2401

Vertical 230V, 16A, 21 IEC-13 and 3 IEC-19 Locking Receptacles

Aggregate monitoring:	QS1D2A0BA2401

Vertical 3~ WYE 230/400V, 32A, 18 IEC-13 and 6 IEC-19 Outlets

Phase monitoring (X,Y,Z):	QS1D2P3BN2491

Vertical 230V, 32A, 20 IEC-13 and 4 IEC-19 Locking Receptacles

Breaker monitoring:	QS1D2B2BN24AA1

Vertical 3~ WYE 230/400V, 32A, 18 IEC-13 and 6 IEC-19 Outlets

Breaker monitoring:	QS1D2P3BN2401

PViQ™ Remote Display Monitor

10' cord:	PVQ-RD

PViQ™ Environmental Sensors

Temperature	
12' cord:	PVQ-EST-12
18' cord:	PVQ-EST-18
Temperature, humidity, airflow, dew point,	
12' cord:	PVQ-ESTAFHD-12
18' cord:	PVQ-ESTAFHD-18
Door position	
30' cord:	PVQ-ESDPK
Water sensor	
20' cord:	PVQ-ESWK

PViQ™ Environmental Splitter

RJ12 5-way:	PVQ-ESP-5

Net-Access™ Server Cabinet

32"W x 45 RU:	CS1, CS2 and CS3

Net-Access™ Switch Cabinet

32"W x 45 RU:	CN1, CN2 and CN3

Net-SERV® High Density Server Cabinet with Solid Side Panels

28"W x 42 RU:	S722C122H
28"W x 45 RU:	S752C122H
24"W x 42 RU:	S622C122H
24"W x 45 RU:	S652C122H

Net-SERV® Standard Density Server Cabinet with Solid Side Panels

28"W x 42 RU:	S722C122F
28"W x 45 RU:	S752C122F
24"W x 42 RU:	S622C122F
24"W x 45 RU:	S652C122F

Net-SERV® Vertical Patch Panel Server Cabinet with Solid Side Panels

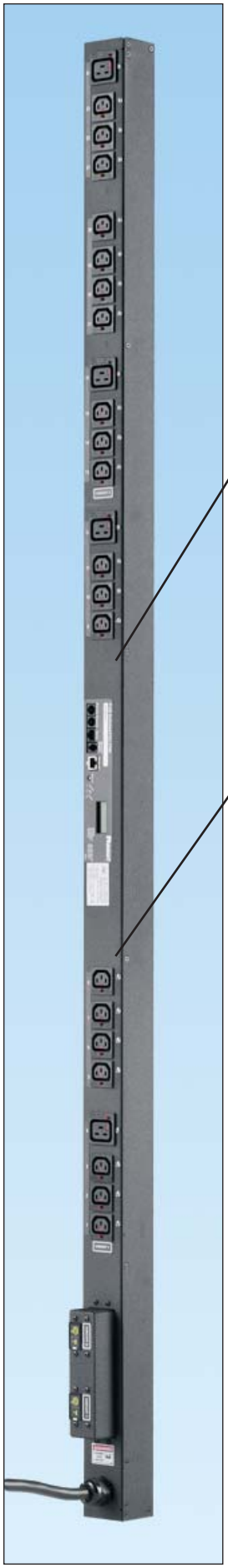
28"W x 42 RU:	S722C122P
28"W x 45 RU:	S752C122P

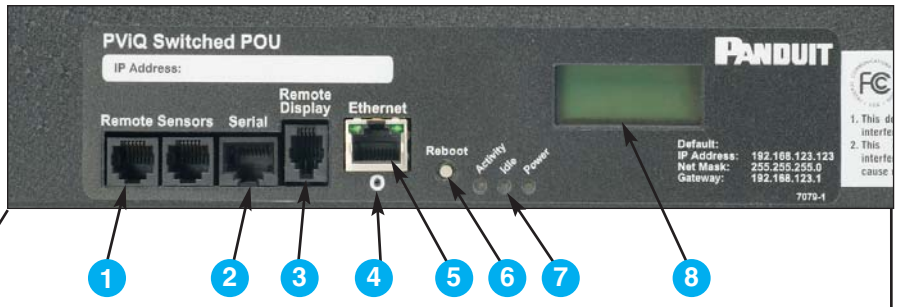
Net-SERV® Vertical Exhaust Duct Server Cabinet with One Solid Side Panel

28"W x 42 RU:	S722C131HV
28"W x 45 RU:	S752C131HV
24"W x 42 RU:	S622C131HV
24"W x 45 RU:	S652C131HV

Power Cord C13 - C14 End

1.5 foot:	PC14C13BL1.5
2 foot:	PC14C13BL2
3 foot:	PC14C13BL3





1 Remote Sensors
- Two RJ12 connector ports to monitor the environmental conditions
- Receive SNMP-based or email alert notifications when environmental conditions exceed defined thresholds

2 Serial Port
- You can use a local computer that connects to the POU or other device through the (serial port) to access the command line interface

3 Remote Display 2 Line x 8 Character LCD (sold separately part number PVQ-RD)
- Based on checked sensor items selected on the Logging screen, the monitor will scroll through and display each measurement
- Can be mounted separate from the unit
- Provides real-time power consumption at the power strip, for improved power manageability and network reliability
- Scrolls through the most recent current measurement (in amps) for each circuit, one at a time
- Local audible alarm sounds when threshold limits have been reached

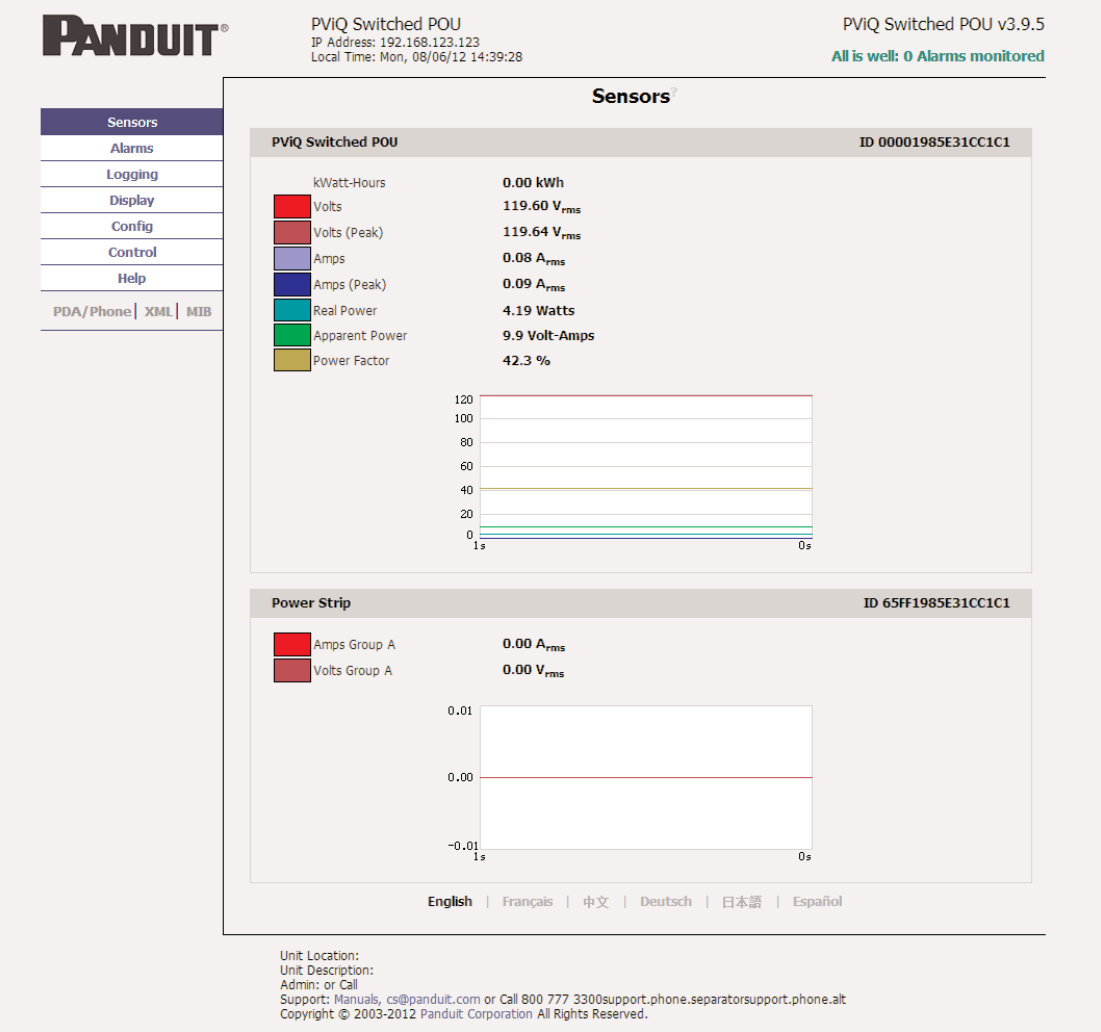
4 IP Reset
- Resets the IP address

5 Network Connection
- RJ45 connections for remote power monitoring

6 Reboot the POU
- If communication is lost, the processor may be manually rebooted without affecting power to the outlets

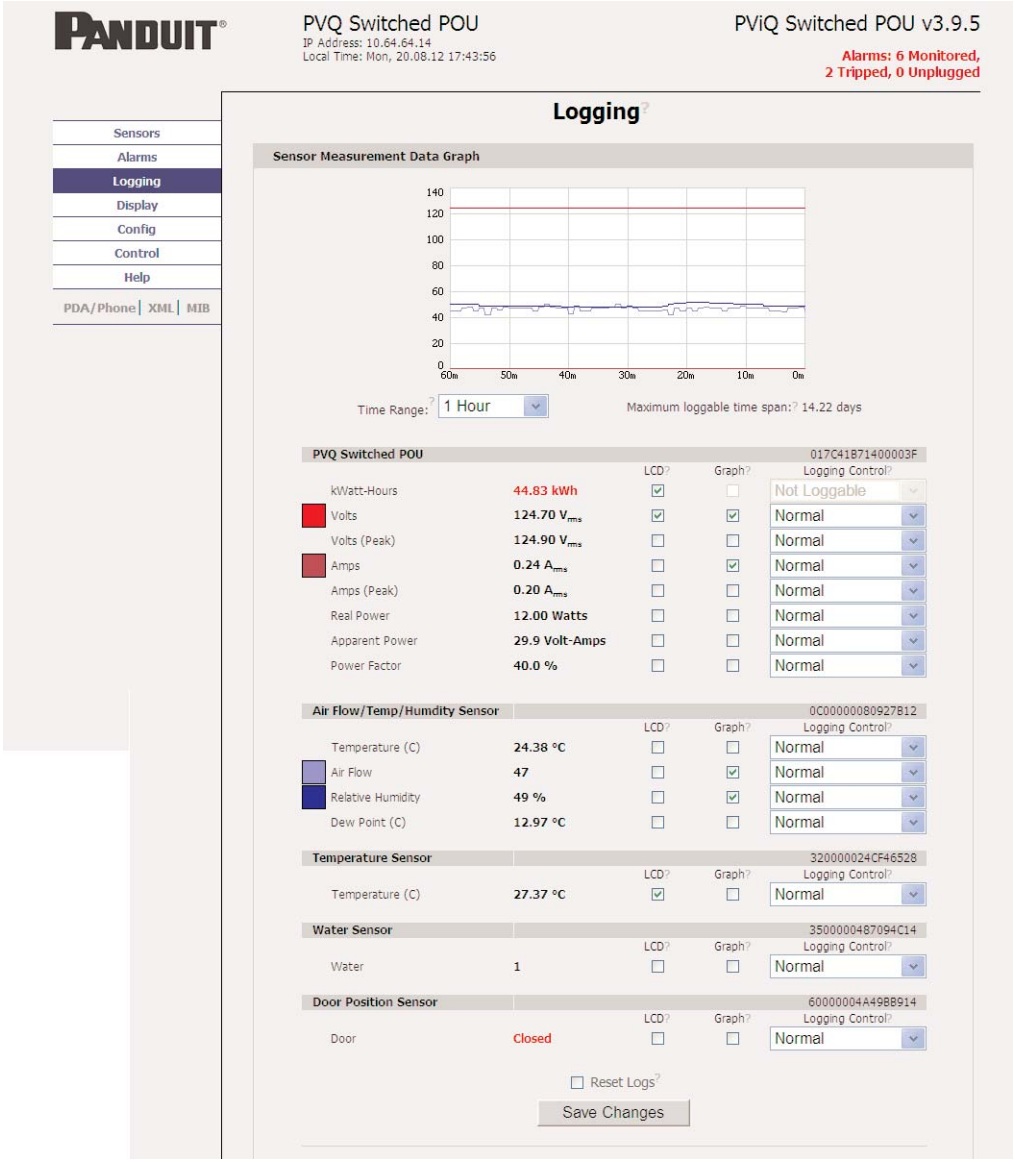
7 POU Lights
- Activity and idle lights will light up when the reset button is used to restore the default IP address; power light indicates unit is on

8 Local Display 2 Line x 8 Character LCD
- Based on checked sensor items selected on the Logging screen, the monitor will scroll through and display each measurement
- Provides real-time power consumption at the power strip, for improved power manageability and network reliability
- Scrolls through the most recent current measurement (in amps) for each circuit, one at a time



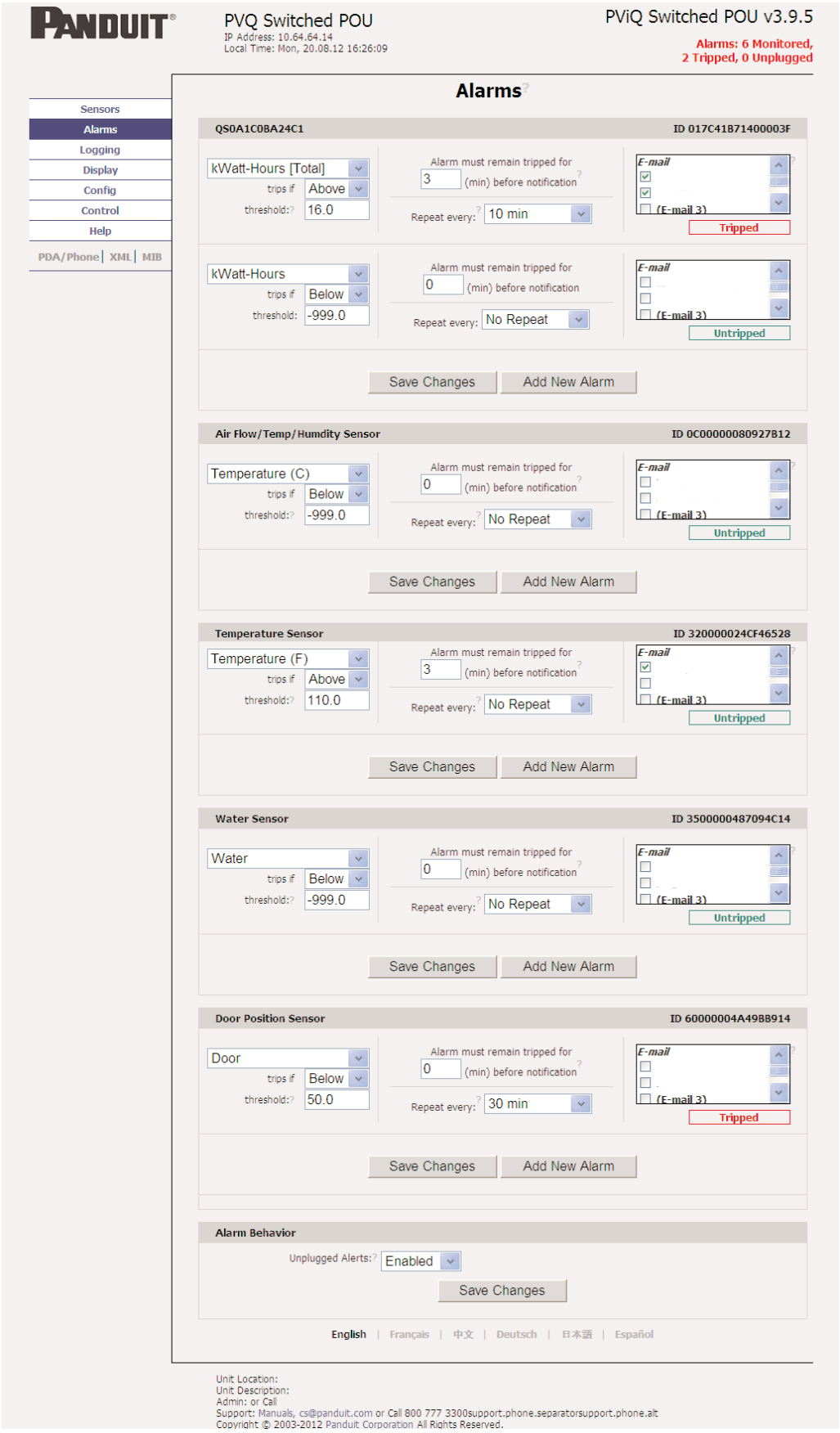
Sensors

- Provides real time current power information via a standard web browser
- Real time readings provide power and sensor data graphed
- Alternate formats for data can be downloaded in PDA, XML and SNMP



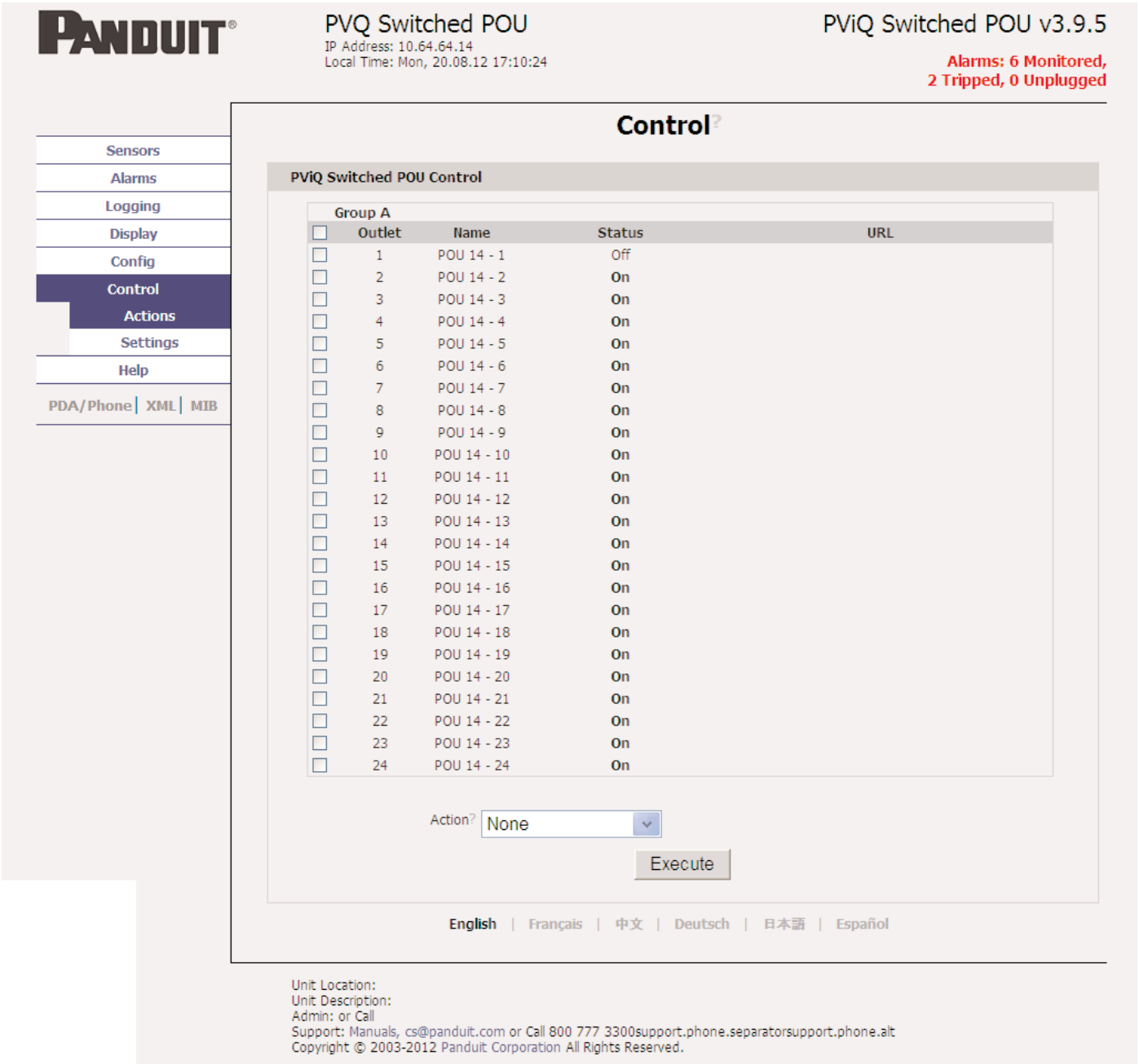
Logging

- Check boxes under the LCD or graph heading allow the user to select which readings are to be on the local meter
- Logging Control allows the user to select between different modes of logging data, data logged once per minute, high value logged each minute or low value logged each minute
- Provides historical data by selecting the desired sensors and time range to be graphed
- Checked readings in the Logged Measurements section are logged into the data file at a rate of one point per minute and will be available for graphing and display
- Recorded data is available for download in a comma-separated values (CSV) filed



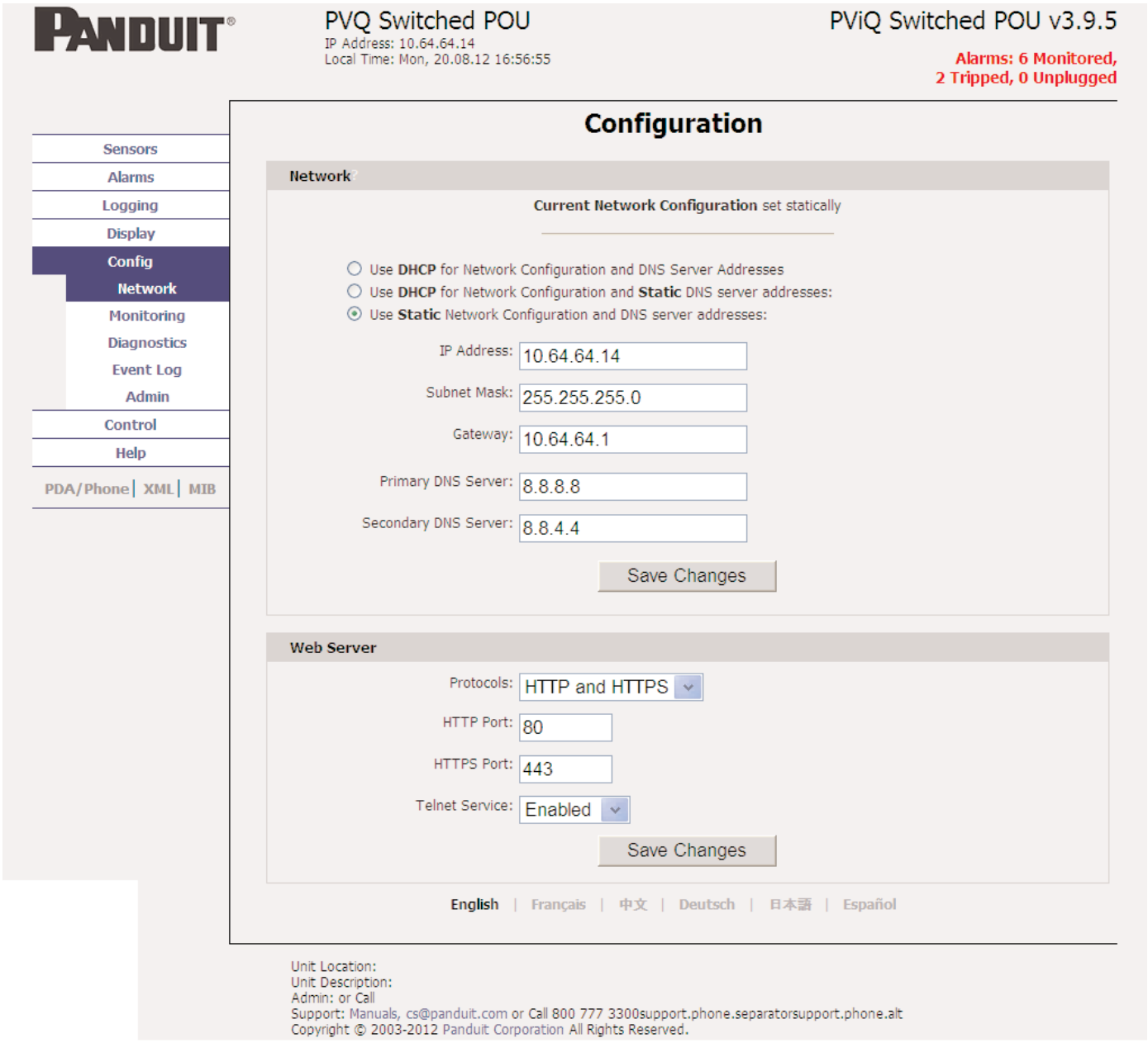
Alarms

- Alarm status provided if defined thresholds are greater than entered
- Allows the user to establish alarm conditions for each sensor reading
- Alarm conditions can be established with either high or low trip thresholds



Control

- The Actions tab on the Control page gives the user control of the outlets
- Outlets can be rebooted or turned on/off with or without pre-programmed delays



Configuration

- Simple network configuration for easy setup

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PVQ-EST-12 and PVQ-EST-18

Temperature range: -40°F to 254°F
Accuracy: +/- 1.8°F from 40°F to 122°F
Monitor “hot spots” throughout your installation.
Available in 12 and 18 foot lengths.

PVQ-ESTAFHD-12 and PVQ-ESTAFHD-18

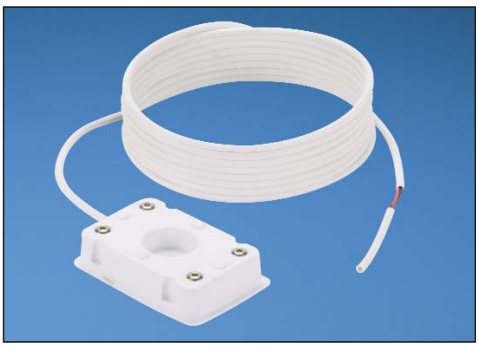
Temperature range: -40°F to 254°F
Accuracy: +/- 9°F from 50°F to 185°F
Airflow: 0-99 – relative
Humidity: RH Accuracy +/- 2% RH
Range: 0 to 100% RH, non-condensing
Single cord monitors four environmental conditions.
Available in 12 and 18 foot lengths.

PVQ-ESP-5

Expand the number of sensors connected to your unit with RJ12 sensor ports.

PVQ-RD

The local display can be mounted outside the cabinet for ease of viewing power/environmental data without opening the cabinet.



PVQ-ESWK

Environmental water sensor, 20' cord. Acts as a conductivity bridge to detect the presence of moisture or water in your facility.

PVQ-ESDPK

Door position sensor, 30' cord. Monitor cabinet door position open or closed. Set alarms to alert when a cabinet has been accessed.

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