

VPN Series PDUs



User Manual

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Preface

About this Manual

Congratulations on purchasing a Vericom PDU. This user manual provides detailed descriptions of the hardware components and how to use the product. Read this manual carefully and follow the instructions before installing.

Copyright Information

No part of this manual, including the products and software described in it, may be reproduced, transmitted, transcribed, stored in a retrieval system, or translated into any language in any form or by any means, except documentation kept by the purchasers for backup purposes, without the express written permission of the manufacturer.

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Preface

Safety Instructions

Follow these safety instructions to avoid injury to yourself and damage to the PDU.

- To reduce the risk of fire or electric shock, install the unit in a temperature-controlled indoor area free of conductive contaminants. Do not place the unit near liquids or in an excessively humid environment.
- Do not allow liquids or foreign objects to enter the unit.
- The unit does not contain any user-serviceable parts.
- Do not open the unit.
- Servicing, maintenance, and repair for this equipment must be performed by qualified service personnel. Remove rings, watches and other jewelry before servicing the unit.
- Before maintenance, repair or shipment, the unit must be completely switched off and unplugged and all connections must be removed.
- Before plugging in the power cord of the device, make sure that the power source rating matches the power rating indicated on the product labels.
- Use a harmonized and certified power cord when connecting any device to the outlets.
- The digital outputs on the EMD can only connect switches, indicators, or other output devices that are normally open or normally closed.

Preface

Safety Notices



Caution:

This unit has been provided with a real time clock circuit. There is a danger of explosion if the battery is incorrectly replaced. Replace only with a 3V Lithium cell (CR1220) or equivalent type. Discard used batteries according to the manufacturer's instructions.



Caution:

Rack-Mounted Equipment – The unit is intended to be rack-mounted, the installation instructions shall contain wording to address the following concerns when the unit is mounted in a rack system.

“The equipment is to be installed in an environment with a maximum ambient temperature of 60° C.”

“The openings on the enclosure are for air convection to protect the equipment from overheating. DO NOT COVER THE OPENINGS.”

“Lay this equipment on a reliable surface when installing. A drop or fall could cause injury.”

“The equipment shall be installed according to the specifications indicated on the product label. Ensure the voltage of the power source matches the stated voltage of the PDU, and that the total current and output power of the load do not exceed the specifications.”

“This equipment must be connected to a reliable earthing system before using.”

Product Introduction

The Vericom VPN PDU is an intelligent power strip designed to monitor input and circuit breaker power consumption and automatically email usage history data to management for billing purposes.

VPN Series PDUs are also equipped with a port for connecting up to 8 EMD (Environmental Monitoring Device) sensors in a daisy chain for monitoring temperature and humidity. In addition, each EMD sensor includes two digital ports for connecting other types of sensors, such as a smoke detector, flood detector, or door contact sensor.

Features

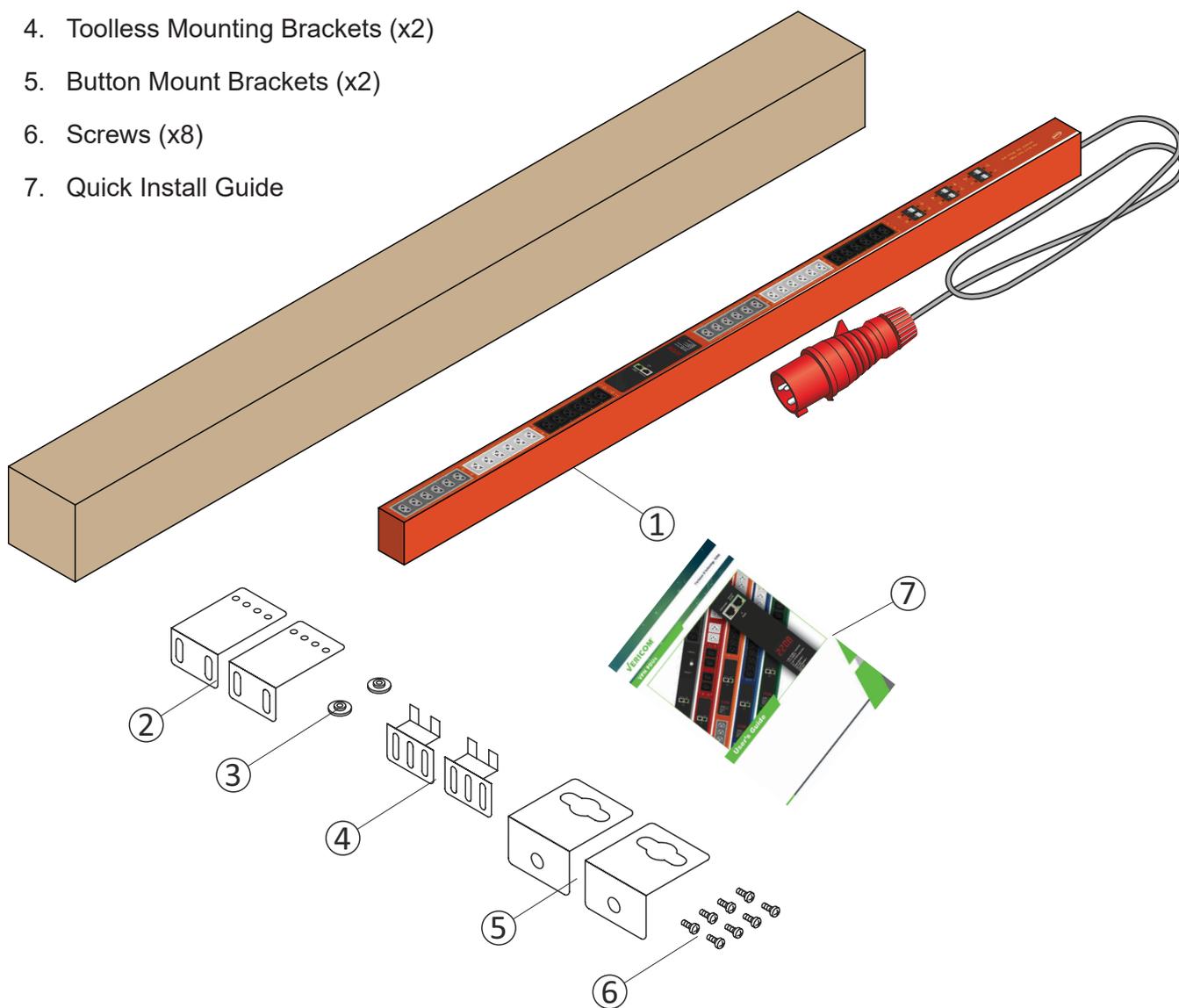
- Calculates the power consumption on an hourly and daily basis.
- Provides detailed data logging for statistical analysis and diagnostics, with an auto-generated history report emailed daily.
- Event notification by pop-up/Sending Trap or email.
- Versatile sensors supported through EMD (Environmental Monitoring Device) inputs, 8 sensors can be deployed in cascade.
- Comprehensive power management and flexible configuration through web browser, NMS, Telnet, SNMP V1,2,3.
- Supports Secure Socket Layer V3 and Secure Shell V2 protocols.
- Administrator and multiple users with password protection for double-layer security.
- Address-specific IP security masks to prevent unauthorized access.
- User-friendly interface to display input and output status.
- Upgrade Utility for easy firmware upgrades.

Product Introduction

Package Contents

Make sure the PDU package has the following items. If any of the items are missing or damaged, contact your Vericom representative.

1. PDU
2. Mounting Brackets (x2)
3. Button Mounts (x2)
4. Toolless Mounting Brackets (x2)
5. Button Mount Brackets (x2)
6. Screws (x8)
7. Quick Install Guide



Getting Started

This section provides information about setting up a Vericom VPN Series PDU, connecting power, and connecting devices to it prior to using it for power management. Read this section carefully to learn how to connect various devices to the PDU.

Rack Mounting

Vericom PDUs can be installed in most standard racks using the various types of brackets and button mounts included in this package:

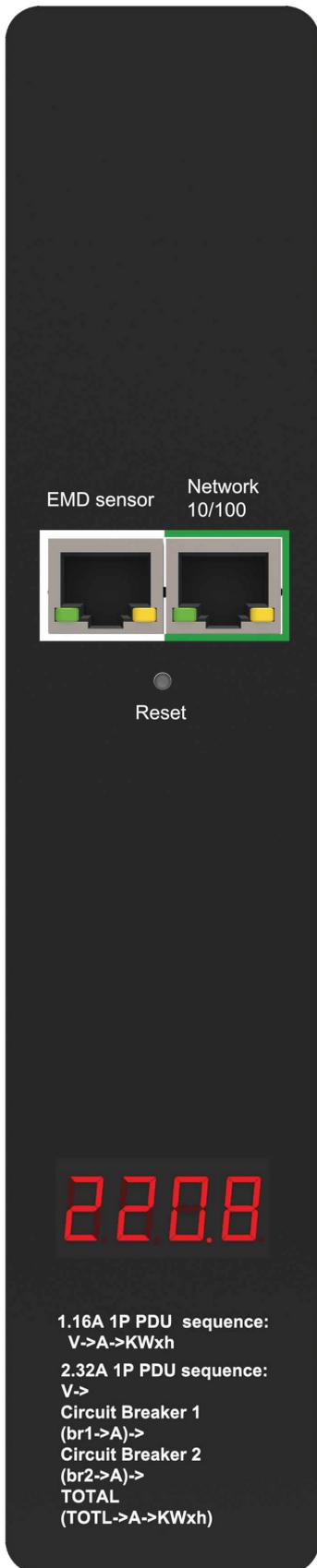
Option 1: Insert the toolless mounting brackets into the ends of the PDU (note the brackets can face all four sides of the PDU; be sure to insert them so that the outlets face the desired direction), then mount the PDU to rack rails using user supplied mounting hardware.

Option 2: Fix the button mounts in the desired position (note the button mounts can be positioned anywhere along the PDU), then mount the PDU into the button mount holes of your rack.

Option 3: Attach the mounting brackets in the desired position (note the brackets can be positioned anywhere along the PDU), then mount the PDU to the rack rails using the user supplied mounting hardware.

Option 4: Fix the button mounts in the desired position (note the buttons can be positioned anywhere along the PDU), mount the bracket onto the buttons, and then mount the bracket buttons into the button mount holes of your rack.

Getting Started



Vericom VPN Series PDUs are a versatile product that can be connected to several different types of input and output devices. This makes it a useful tool for delivering and monitoring power to connected devices.

Temperature and humidity can be monitored via a connected EMD (Environmental Monitoring Device) sensor. Each EMD includes two ports for connecting additional open/close type sensors, such as smoke, vibration, and flood detectors.

A single 10/100 Ethernet (LAN/WAN) port is included to allow users to configure and monitor the PDU remotely.

Status Display

The front panel of the VPN Series PDU has a digital display that provides information about the input power status.

Getting Started

The following is an overview of the basic steps needed to set up the VPN Series PDU:

1. To set up the hardware, connect the PDU power cord to a power supply and the equipment power cords to the PDU outlets. If using the EMD sensor, connect it to the EMD port on the PDU and connect any additional open/close sensors to the EMD.
2. To configure the PDU, users must use the LAN port. Connect the device to a Ethernet to enable its configuration through the browser menu.
3. Use a console application such as Telnet or Hyper Terminal to access the console menu. Select the TCP/IP submenu under the Network Management to set up the IP address and select the General Setting submenu under the System Management to set up the system date/time. This IP address will be used while accessing the web interface to configure the PDU parameters.
4. After connecting to a LAN, open a browser from a PC in the network and use the IP address specified through the console menu to open the PDU web interface for system configuration.

Getting Started

The following sections provide instructions on how to make various connections.

Connecting Input Power

Vericom PDUs are available with a variety of NEMA and IEC309 plugs based on the required phase, voltage, and current of the installation. Be sure to only connect each type of plug into a corresponding outlet type.



Connecting Output Devices

Vericom PDUs are available with a variety of outlet types and quantities for connecting equipment such as servers, switches, and routers. Connect equipment power cords to corresponding outlet types on the PDU.



Vericom PDUs are available with the following outlets:

220V/10A, IEC C13 (Lock)

220V/16A, IEC C13/C19 combo

120V/15A: NEMA 5-15P

120V/20A: NEMA 5-20P

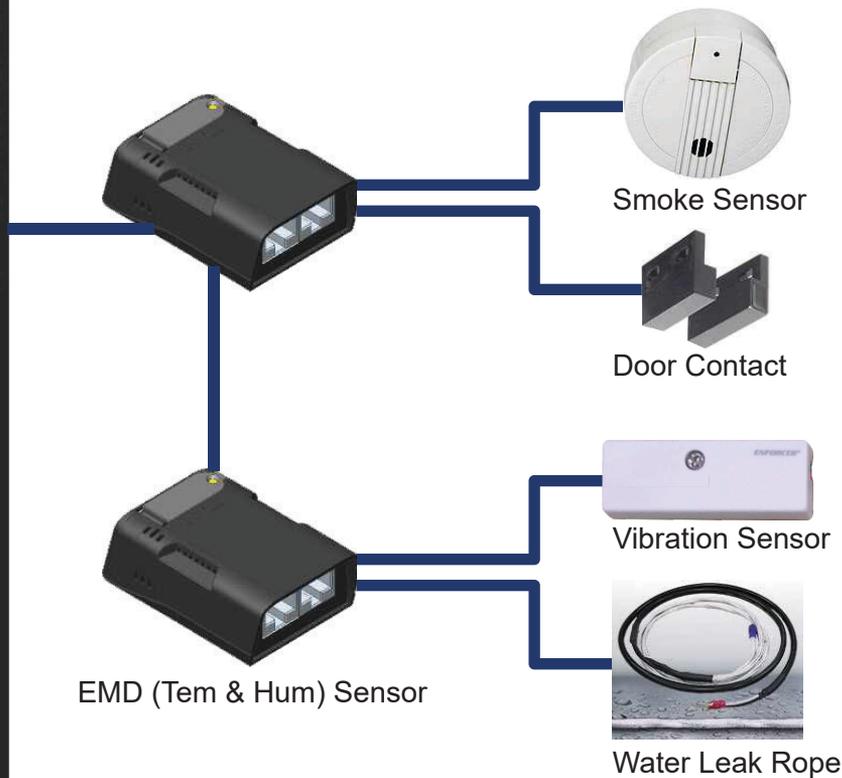
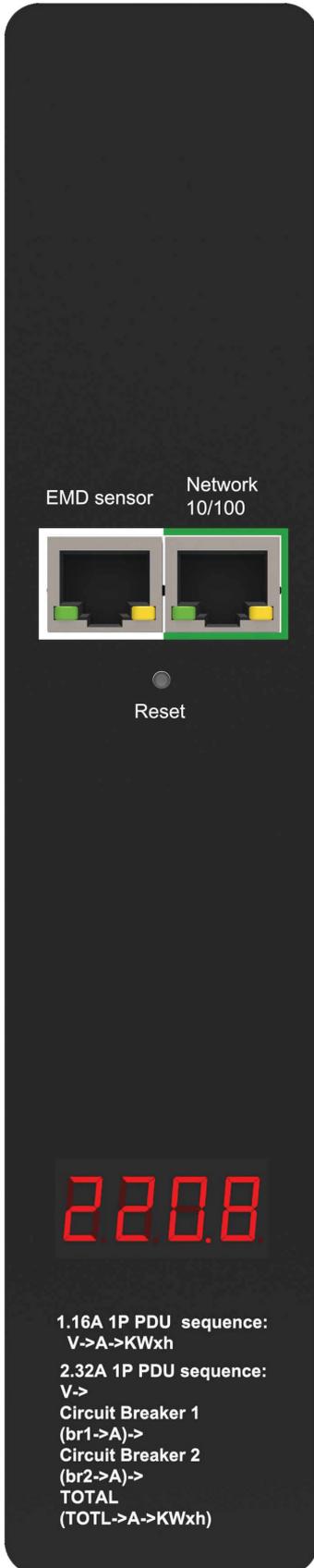
Getting Started

Connecting an EMD

An Environmental Monitoring Device (EMD) that includes sensors for detecting temperature and humidity can be connected to Vericom PDUs via an Ethernet cable to the EMD Sensor port. Up to 8 EMD sensors can be connected in a daisy chain to monitor the temperature and humidity in different parts of a rack. In addition, up to 2 open/close sensors, such as smoke, vibration, and/or flood detectors, can be connected to each EMD.

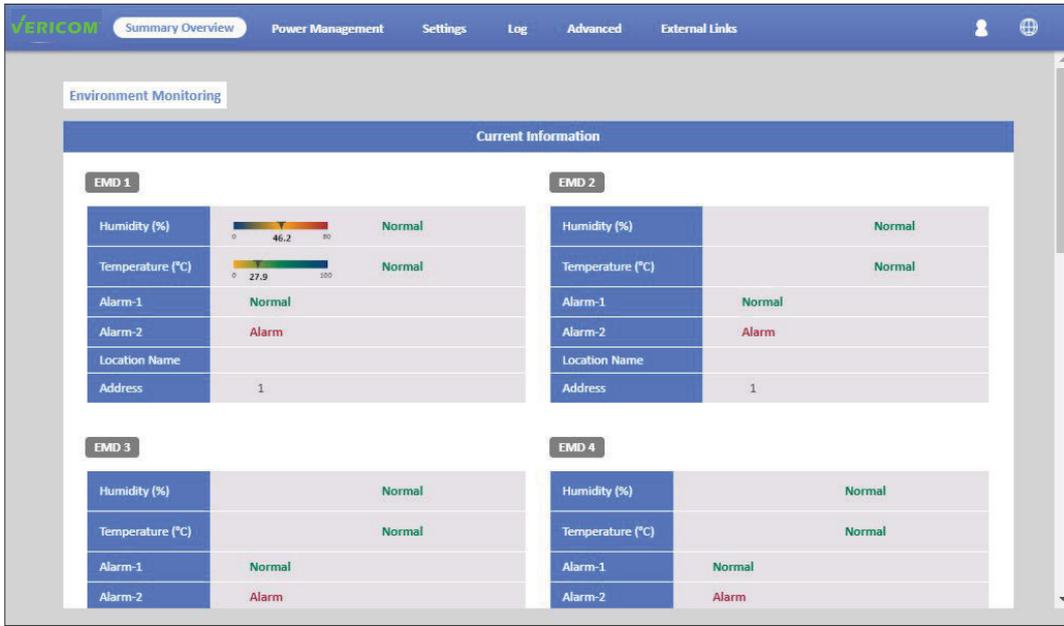
Connecting digital input sensors

Each EMD can support 2 digital input sensors, such as smoke, water, or vibration sensors, door contacts, or any other sensor with open/close functionality.



Getting Started

After connecting the EMD, open a web browser from a PC and enable environmental sensors on the web user interface. The temperature and humidity status will now be automatically displayed on the System Overview page.



Connecting to a LAN/WAN

Vericom PDUs have a graphic user interface that allows users to control the device through a web browser. Simply connect the PDU to a free port on a router using an Ethernet cable. Users can control the PDU from a PC, laptop, or mobile device connected to the internet. Refer to page 15 for details.

Getting Started

Using (RCM) Residual Current Monitoring:

When a residual current device is triggered, the display will flash a “WARNING” sign as shown.

Residual Current Monitoring is an optional feature and not included on all models.



Users can customize the residual current settings from the Inlet Configuration webpage as shown.

1. The alarm threshold setting range is 2mA to 50mA (the default setting is 20mA). An alarm is triggered anytime the residual current is greater than or equal to the threshold value.
2. When DC residual current is greater than or equal to 5mA, an alarm is triggered.
3. When AC residual current is greater than or equal to 20mA, an alarm is triggered.
4. When the alarm threshold value setting is less than or equal to 5mA, and alarm is triggered if the AC or DC residual current is active.
5. When the alarm threshold value setting is less than or equal to 20mA, and alarm is triggered if the AC residual current is active, while the DC residual current will be ignored.

The screenshot displays the Vericom web interface. At the top, there is a navigation bar with tabs for 'Summary Overview', 'Power Management', 'Setting', 'Log', 'Advanced', and 'External Links'. The 'Power Management' tab is active. Below the navigation bar, the 'Phase Load Management' section is visible, showing a table for 'PDU A' with columns for Phase, Current(A), Voltage(V), Frequency (Hz), Power Factor(%), Power(W/VA) Active/Apparent, Reactive Power (var), and Status. The table shows a single phase with a current of 0.00, voltage of 0.0, frequency of 0.00, power factor of 0.0, and power of 0.0/0.0. Below the table, the 'Residual Current (mA)' is shown as 29.1, which is in a 'Critical' state.

The 'Configuration' section is also visible, showing settings for 'PDU A'. It includes a table for 'Over Load Alarm(W)' and 'Load Balance Alarm(%)' with 'Critical' and 'Warning' levels. The 'Residual Current (mA)' section shows an 'Alarm Threshold' of 20. To the right, there is a table for 'Over Current Alarm (A)' and 'Over Voltage Alarm (V)' with 'Critical' and 'Warning' levels. The 'Apply' button is located at the bottom of the configuration section.

Using the Web Interface

Vericom Smart PDUs provide a graphical user interface that can be viewed from a web browser. This enables users to access the PDU to set parameters and monitor power usage remotely from a user's desktop, laptop, PDA, or even a mobile phone. This section provides instructions on how to use the web interface to configure and control the PDU remotely.

Summary Overview-System Overview

Launch a web browser from the host PC or laptop and enter the IP address of the PDU in the address bar (for details about setting the IP address of the system, refer to instructions on page 10). You will be prompted to enter a Username and Password. Click Go and the main status page of the Vericom PDU web interface is displayed.

The default settings are:

DHCP: Enabled

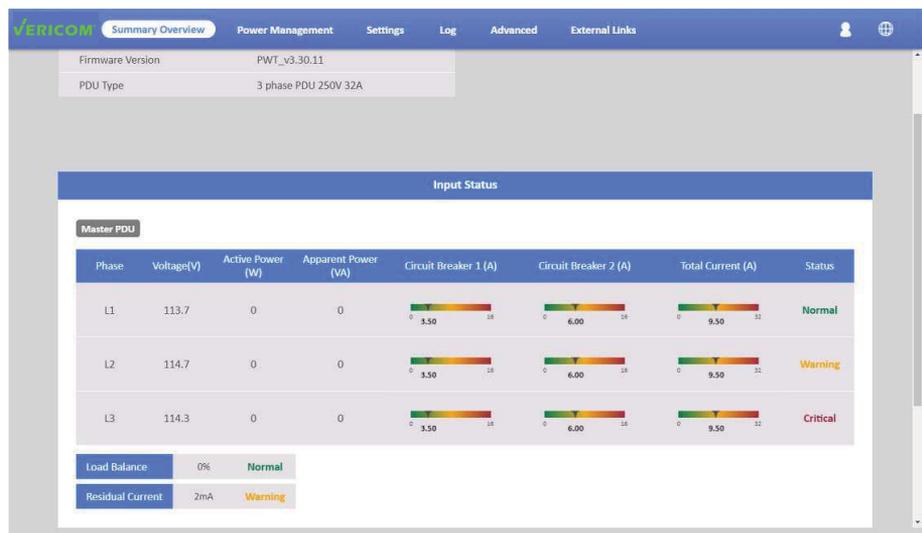
IP Address: 192.168.1.250

Subnet Mask: 255.255.255.0

Gateway: 192.168.1.10

Username: admin

Password: admin



The main page shows a graphical representation of the PDU input status as described below:

- The panel shows the various menus and submenus. Click any menu to display the options, expand the menu items, and modify the menu options as required.
- The right panel shows the current status of the PDU.

Using the Web Interface

Summary Overview-Alarm List

The “Alarm List” page shows the list of alarms that were set by the user. The PDU will follow the rules of an alarm to send out notifications to the user.

| Alarm ID | Alarm Time | Alarm Description |
|----------|--------------|-------------------|
| xxx.xx | xxxx/xxx/xxx | xxxxxxx |

Summary Overview-Network Connection

The Network Connection page shows a list of user’s connections.

| Source Host Address | Connection Type | Username |
|---------------------|-----------------|----------|
| 172.31.1.91 | HTTP | admin |

Using the Web Interface

Power Management-Inlet Configuration

This page lets the user configure Inlet load. You can set the condition of “Critical” and “Warning”. (The value of “Critical” must be larger than “Warning”).

When Inlet Power is higher than the parameter you set, the status light will change color (red for Critical, Yellow for Warning, and Green for Normal) and you will receive a notification email if you have set it up in Email Notification.

The screenshot displays the Vericom web interface for Power Management configuration. The navigation bar includes 'Summary Overview', 'Power Management', 'Setting', 'Log', 'Advanced', and 'External Links'. The user is logged in as 'admin'.

Phase Load Management

PDU A

| Phase | Current(A) | Voltage(V) | Frequency (Hz) | Power Factor(%) | Power(W/VA) Active/Apparent | Reactive Power (var) | Status |
|-------|------------|------------|----------------|-----------------|--------------------------------|-------------------------|--------|
| 1 | 0.00 | 0.0 | 0.00 | 0.0 | 0.0/0.0 | 0.0 | Normal |

Residual Current (mA) 29.1 **Critical**

Configuration

PDU A

| | Over Load Alarm(W) | Load Balance Alarm(%) | Over Current Alarm (A) | Over Voltage Alarm (V) |
|----------|--------------------|-----------------------|------------------------|------------------------|
| Critical | 3520 | 100 | 16.00 | 250.0 |
| Warning | 2200 | 50 | 13.00 | 245.0 |

Residual Current (mA)

Alarm Threshold: 20

Apply

Using the Web Interface

Power Management-Environment Monitoring

This page shows the status of EMD sensors and lets users set alarm configurations. You can set alarm parameters for “Critical” and “Warning” (the value of “Critical” must be larger than “Warning”). Email Notification rules can also be set from this page.

The screenshot displays the 'Environment Monitoring' section of the Vericom web interface. It features a navigation bar with 'Summary Overview', 'Power Management', 'Settings', 'Log', 'Advanced', and 'External Links'. The main content area is titled 'Current Information' and shows four EMD sensors (EMD 1, EMD 2, EMD 3, and EMD 4). Each sensor's status is shown in a table with columns for Humidity (%), Temperature (°C), Alarm-1, Alarm-2, Location Name, and Address. EMD 1 and EMD 2 show 'Normal' for Humidity and Temperature, but 'Alarm' for Alarm-2. EMD 3 and EMD 4 show 'Normal' for all parameters.

| EMD | Humidity (%) | Temperature (°C) | Alarm-1 | Alarm-2 | Location Name | Address |
|-------|--------------|------------------|---------|---------|---------------|---------|
| EMD 1 | 46.2 Normal | 27.9 Normal | Normal | Alarm | | 1 |
| EMD 2 | Normal | Normal | Normal | Alarm | | 1 |
| EMD 3 | Normal | Normal | Normal | Alarm | | |
| EMD 4 | Normal | Normal | Normal | Alarm | | |

The screenshot displays the 'EMD Configuration' section of the Vericom web interface. It features a navigation bar with 'Summary Overview', 'Power Management', 'Settings', 'Log', 'Advanced', and 'External Links'. The main content area is titled 'EMD Configuration' and shows a list of EMD sensors (EMD1 through EMD8). The configuration for EMD 1 is shown in a table with columns for Sensor Name, Alarm Name, High, Low, Temperature (°C), and Humidity (%). The configuration for EMD 1 is as follows:

| Sensor Name | Alarm Name | High | Low | Temperature (°C) | Humidity (%) |
|-------------|------------|--------------------------|--------------------------|------------------|--------------|
| | Critical | <input type="checkbox"/> | <input type="checkbox"/> | 75 | 80 |
| | Warning | <input type="checkbox"/> | <input type="checkbox"/> | 60 | 70 |
| | | <input type="checkbox"/> | <input type="checkbox"/> | -10 | 5 |
| | | <input type="checkbox"/> | <input type="checkbox"/> | 0 | 15 |

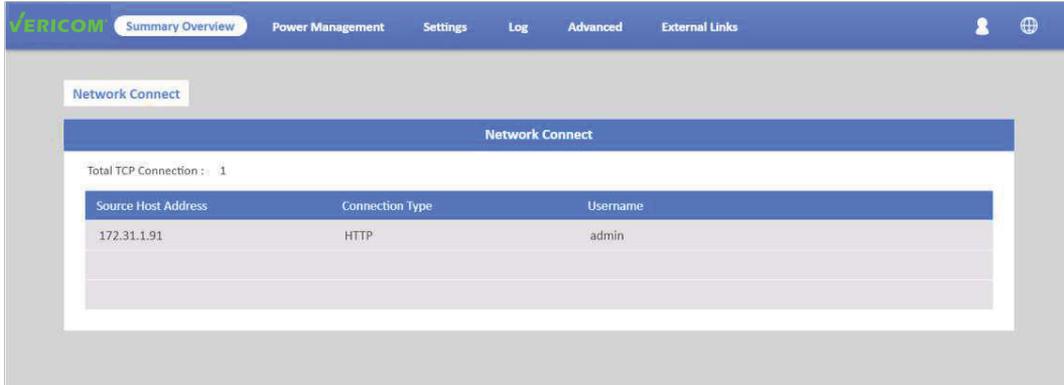
The configuration also includes fields for EMD Address, Application FW Version, LT Close (Disable), Location Name, Alarm-1 (Disable), and Alarm-2 (Normal Open). A Calibration Offset is set to 0.0 for Temperature and +1.0 for Humidity. An 'Apply' button is located at the bottom of the configuration section.

Vericom Smart PDUs support up to 8 EMD sensors in daisy chain. Each EMD sensor includes two digital inputs for connecting additional sensors with open/close functionality. Alarms can be set for each input: Normal Open, Normal Close, and Disable. For example, if Normal Open is selected, a “Warning” alarm with a yellow light will be triggered anytime the sensor circuit is closed.

Using the Web Interface

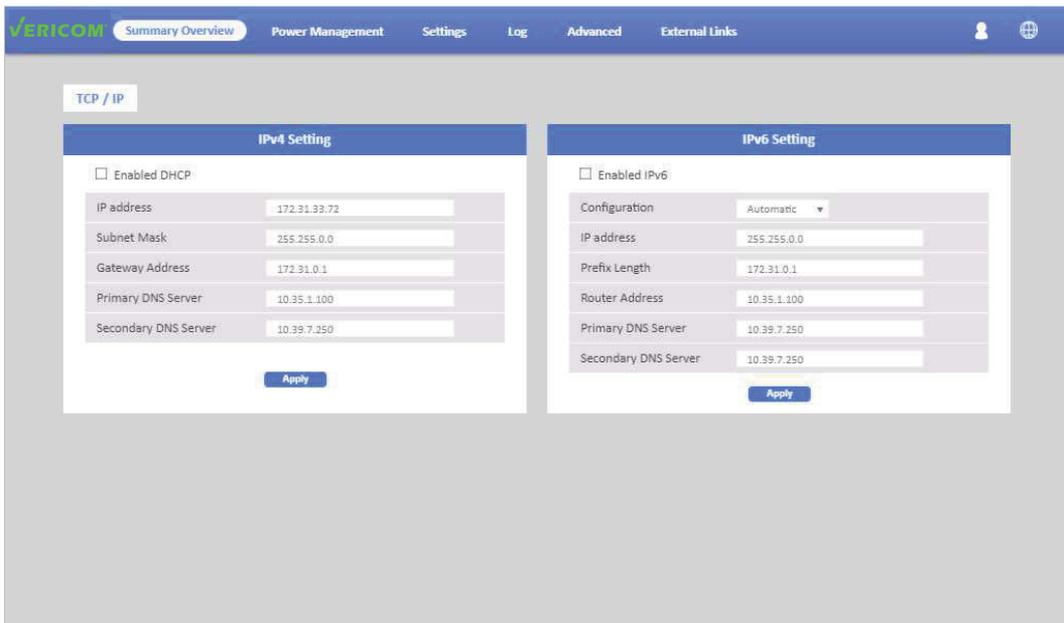
Network-TCP/IP

This page lets users enable DHCP and set an IP address manually.



Network Management-Accessible IP Setting

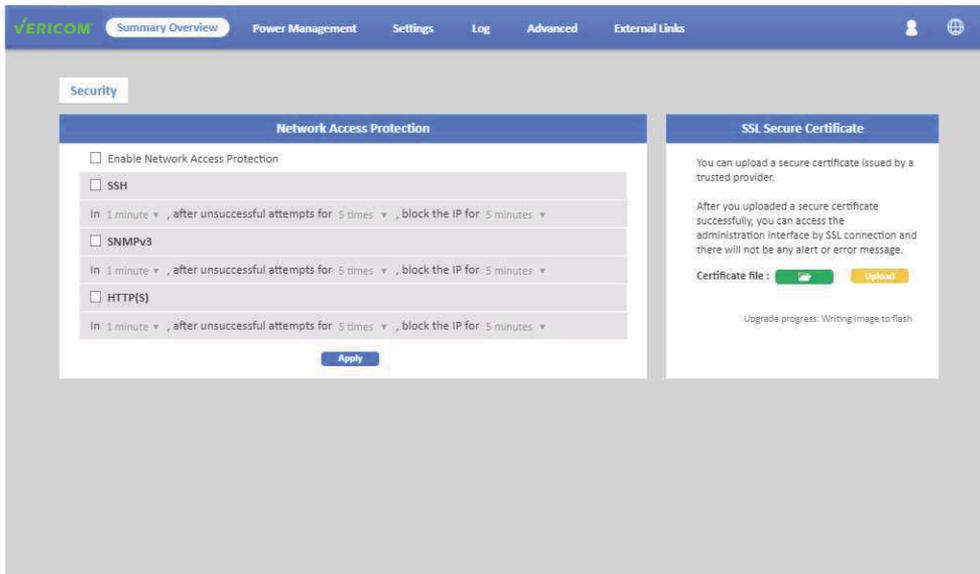
This page lets users add/delete/modify accessible IP list.



Using the Web Interface

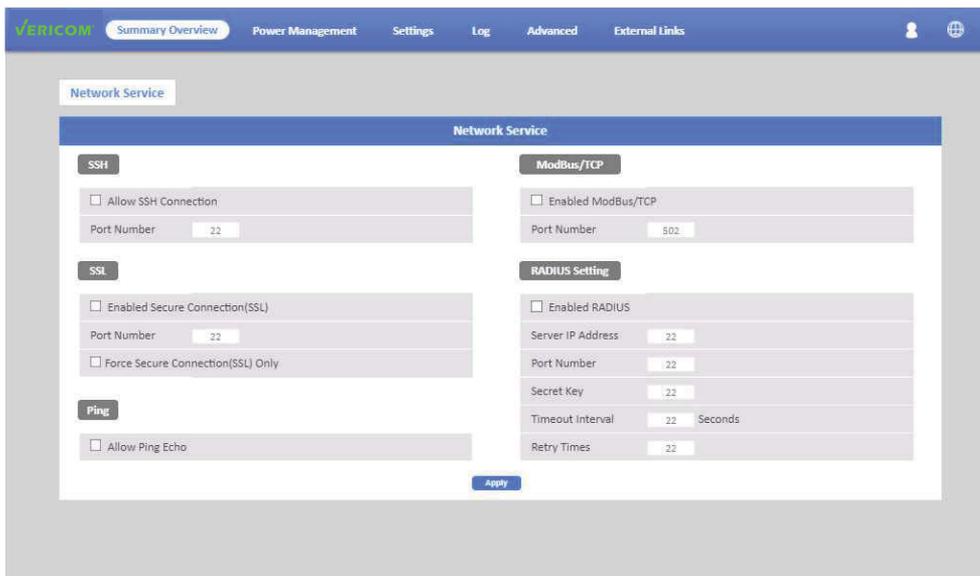
Network Management-Security

This page lets users enable Network Access Protection and manually set parameters for SSH, SNMPv3, and HTTP(S).



Network Management-Network Service

This page lets users set SSH/SSL/Ping/RADIUS parameters. If a user wants to add a Radius User (from Settings menu), they must “Enable RADIUS” on this page first.



Using the Web Interface

Network Management-SNMP Segments

This page lets users set the SNMP Agent.

The screenshot displays the Vericom web interface. At the top, there is a navigation bar with the Vericom logo and several menu items: Summary Overview, Power Management, Settings, Log, Advanced, and External Links. Below the navigation bar, the main content area is titled "SNMP Setting".

The "SNMP Agent" section contains the following configuration options:

- Enable SNMP Service
- Port Number:
- SNMP Version:
- Community Read:
- Community Write:

An "Apply" button is located below the configuration fields.

The "SNMP Trap Setting" section features a table with the following columns: Receiver Address, Event Level, Trap Version, and Description. The table contains three rows, each with a checkbox in the first column and empty fields for the other columns. There are also three icons (refresh, back, and settings) in the top right corner of the table area.

Network Management-SNMP Trap Segmenting

This page lets users add/delete/modify SNMP trap settings.

This screenshot shows a close-up of the "SNMP Trap Setting" table from the previous image. The table has four columns: Receiver Address, Event Level, Trap Version, and Description. There are three rows, each starting with a checkbox in the first column. The table is titled "SNMP Trap Setting" and includes three icons (refresh, back, and settings) in the top right corner.

Using the Web Interface

General Settings

This page lets the user set General Settings.

General Setting

System Administration

| | |
|------------------------------|-----------------------|
| System Name | POWERTEK |
| System Contact | tech@powertekplus.com |
| System Location | |
| Log Interval | 60 Seconds |
| Web Refresh Interval (1 min) | 15 Seconds |
| Log Per Page | 10 |
| Web Timeout Interval (Sec) | 15 Seconds |

Data and Time

| | |
|-----------------------|--------------------------------------|
| Current Date and Time | 2020/10/26 09:57:54 |
| Time Zone | CET (Central European Standard Time) |
| Date Format | yyyy/mm/dd |
| Time Setting | 24HR |

Apply

User Management

This page lets the user enable new users and passwords.

User Setting

Local User

| Username | Privilege |
|--------------------------|-----------|
| <input type="checkbox"/> | |
| <input type="checkbox"/> | |
| <input type="checkbox"/> | |

Radius User

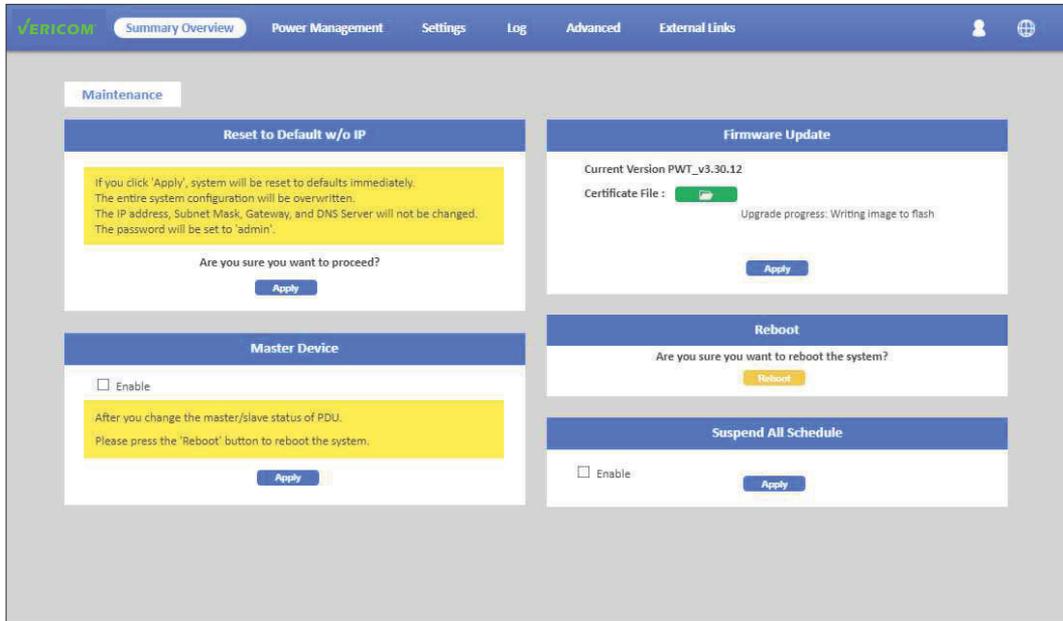
| Username | Privilege |
|--------------------------|-----------|
| <input type="checkbox"/> | |
| <input type="checkbox"/> | |
| <input type="checkbox"/> | |

Authentication Configuration

Using the Web Interface

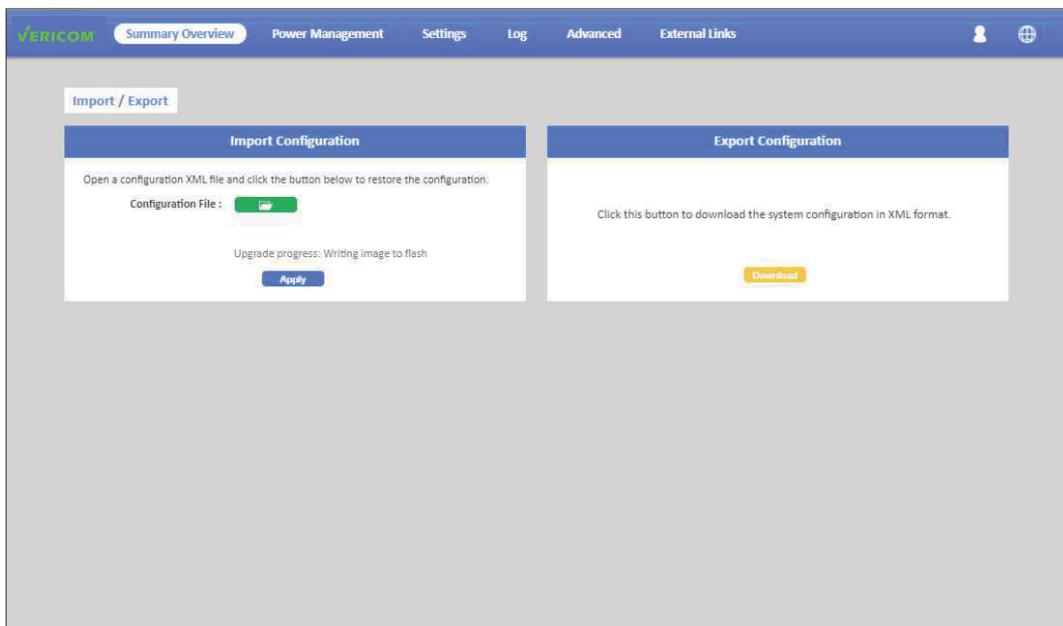
Maintenance

This page lets the user set Restart/Upgrade/Reboot.



Import/Export

This page lets users import/export an XML file to restore/download the configuration.



Using the Web Interface

Settings Radius User

This page allows the Power Admin to Add/Delete/Modify Radius users.

You must enable RADIUS and set ready in the Network Service. Then you can add a Radius User and set parameters for this user. The Grouping & Schedule function also supports radius users.

The screenshot displays the 'Network Service' configuration page in the VeriCom web interface. The page is divided into several sections for configuring different services:

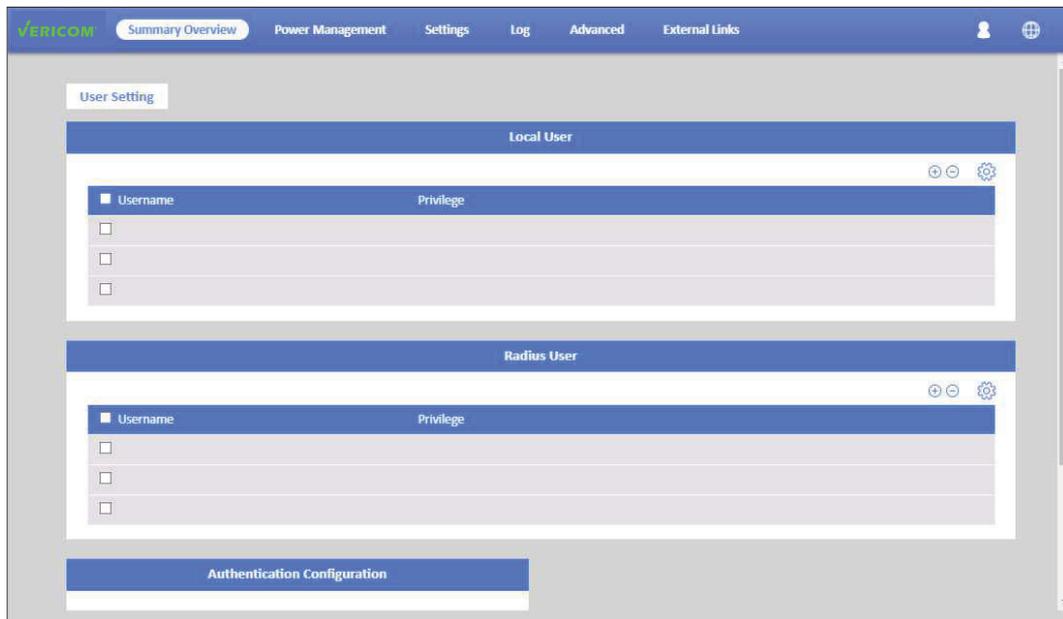
- SSH:** Includes a checkbox for 'Allow SSH Connection' and a 'Port Number' input field set to 22.
- ModBus/TCP:** Includes a checkbox for 'Enabled ModBus/TCP' and a 'Port Number' input field set to 502.
- SSL:** Includes checkboxes for 'Enabled Secure Connection(SSL)' and 'Force Secure Connection(SSL) Only', along with a 'Port Number' input field set to 22.
- Ping:** Includes a checkbox for 'Allow Ping Echo'.
- RADIUS Setting:** Includes a checkbox for 'Enabled RADIUS' and several input fields: 'Server IP Address' (22), 'Port Number' (22), 'Secret Key' (22), 'Timeout Interval' (22 Seconds), and 'Retry Times' (22).

An 'Apply' button is located at the bottom center of the configuration area.

NOTE: If there are 2 users with the same name listed in both Local User & Radius User, Local user will become a priority.

Using the Web Interface

Settings - Local User



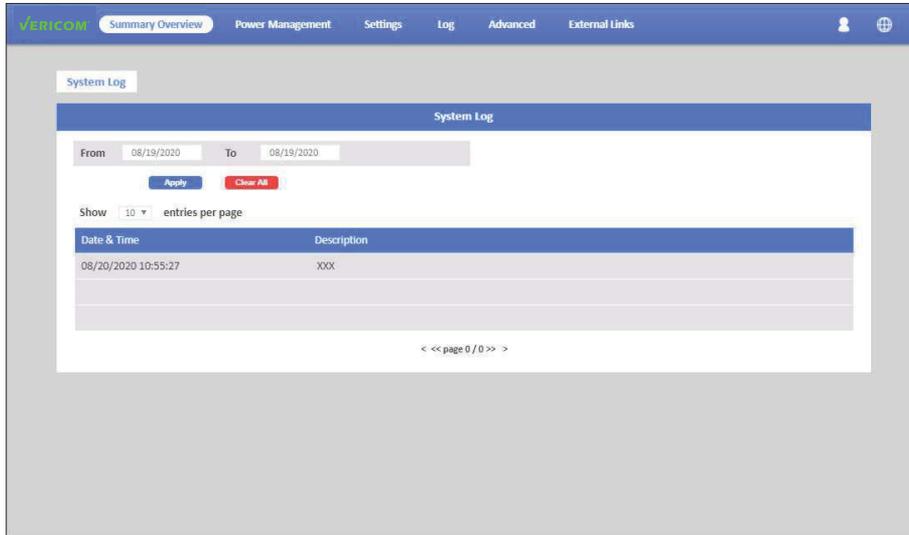
This page shows the user list and admin that can add/delete/modify it. The list can be up to 8 users. There are 4 kinds of privileges for the user account:

| Privilege | Definition |
|-------------|---|
| Power Admin | Users can manage all functions. |
| Admin | Admin users can manage everything but the following: [User Management], [Outlet Grouping], [FW Upgrade & Inlet/Outlet Upgrade], [Reset Default] function. |
| Supervision | Supervision users only manage [Power Monitoring], [Outlet Grouping], [Inlet/outlet upgrade] function. |
| User | Read only - cannot manage any function. |

Using the Web Interface

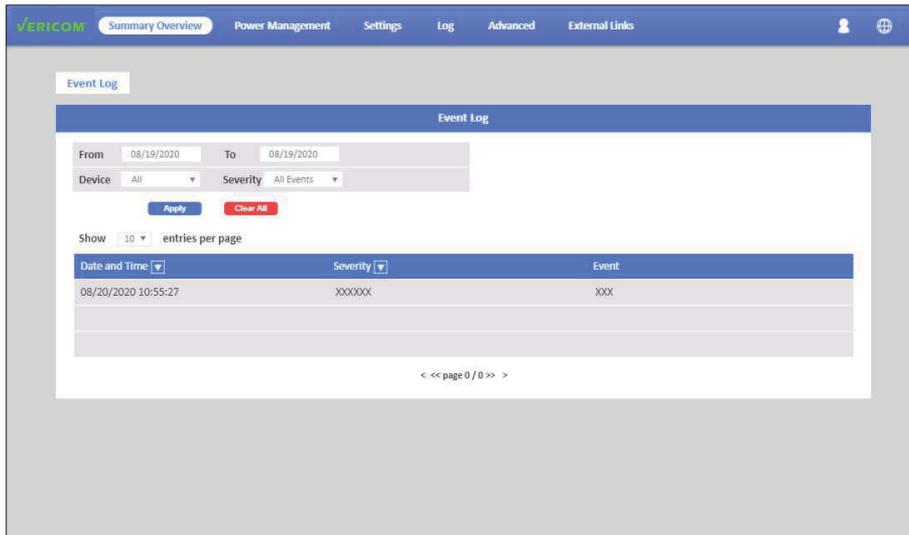
Log and Notification-System Log

This page shows the system log.



Log and Notification-Even Log

This page shows the warnings and alarms history log.



Using the Web Interface

Settings Configure SMTP Server

This page lets users configure SMTP server.

The screenshot displays the VeriCom web interface. The top navigation bar includes 'Summary Overview', 'Power Management', 'Settings', 'Log', 'Advanced', and 'External Links'. The main content area is titled 'SNMP Setting' and is divided into two sections: 'SNMP Agent' and 'SNMP Trap Setting'.

SNMP Agent Configuration:

- Enable SNMP Service
- Port Number:
- SNMP Version:
- Community Read:
- Community Write:
-

SNMP Trap Setting Configuration:

| <input type="checkbox"/> | Receiver Address | Event Level | Trap Version | Description |
|--------------------------|------------------|-------------|--------------|-------------|
| <input type="checkbox"/> | | | | |
| <input type="checkbox"/> | | | | |
| <input type="checkbox"/> | | | | |

Settings Email Notification Settings

This page lets users set email notification settings. Click “+” to set a new setting. Input “Receiver Address”, select “Email Type”/“Event Level” and “Description”, then click “Apply” to save settings. You can send a test mail to confirm the setting is correct by clicking “Send Test”. Once the new setting is applied, you will get a notification email when the event has been triggered.

The screenshot displays the VeriCom web interface. The top navigation bar includes 'Summary Overview', 'Power Management', 'Settings', 'Log', 'Advanced', and 'External Links'. The main content area is titled 'Email Settings' and is divided into two sections: 'Configure SMTP Server' and 'Email Notification Setting'.

Configure SMTP Server Configuration:

- SMTP Server:
- Port Number:
- Sender Email Address:
- Prefix:
- Enable SMTP Authentication
- UserName:
- Password:
-

Email Notification Setting Configuration:

| <input type="checkbox"/> | Receiver Address | Email Type | Event Level | Description |
|--------------------------|------------------|------------|-------------|-------------|
| <input type="checkbox"/> | XXX.XXX.XXX | XXX | XXXX | X |
| <input type="checkbox"/> | | | | |
| <input type="checkbox"/> | | | | |

Using the Web Interface

Log and Notification-Inlet History Log

This page shows the inlet history log. You can set the log interval in General Setting under the System Management.

| Date and Time | Device Name | Pwr:W | Pwr:Max:W | Ph1 LA | Ph2 LA | Ph3 LA | Ph1 I Max:A | Ph2 I Max:A | Ph3 I Max:A |
|---------------------|-------------|-------|-----------|--------|--------|--------|-------------|-------------|-------------|
| 08/20/2020 10:55:27 | PDU A | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 | 112.3 | 99.9 | 59.81 |

Log and Notification-Environment History Log

This page shows the environment history log. You can set the log interval in General Setting under System Management.

| Date and Time | Device | Temp.C | Hum.%RH |
|---------------------|--------|--------|---------|
| 08/20/2020 10:55:27 | XXX | XXX | XXX |

Warranty

LIMITED WARRANTY

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Phone: 865.671.4455 | **Fax:** 865.671.4497

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