Power Management PM1000 Power Distribution Units

The Avocent PM1000 PDUs enable companies of all sizes to accurately measure the current, voltage and power for the entire strip and the circuits within. The PM1000 PDUs include a LED display and a built-in browser interface for local and remote access to real-time data. The strip-level metering feature, along with the capability to set custom thresholds, allows companies to optimize their electrical infrastructure without the risk of downtime due to overloaded circuits. The PM1000 PDUs also offer flexible installation options for standalone applications or integration with larger applications using other Avocent appliances and the DSView® 3 management software.

Support High Rack Densities

The PM1000 PDUs are part of the Avocent Power solutions which include a variety of models and capabilities. Outlet-level metering and remote switching capabilities are options in addition to the strip level metering that the PM1000 PDUS offer. Here is a comparison chart of the current power solutions:

Product Family	DSView 3 software integration	Main interface options	3-phase power options	Switching capability	Metering capability	Includes C19 outlets
PM3000	Yes	Serial* or IP	Yes	per outlet	per outlet	Yes
PM2000	Yes	Serial* or IP	Yes	None	per outlet	Yes
PM1000	Yes	Serial* or IP	Yes	None	strip level	Yes
PM10/10i PM20/20i	Yes	only	No	strip level	strip level	No

**Note: The serial interface option can be connected to supported Avocent appliances*

Measure Power and Energy Consumption at the Strip Level

Many PDUs measure the available current at the strip level to ensure the integrity of power to the attached equipment. The PM1000 PDUs also provide additional measurements in order to measure the energy consumption. This energy measurement allows companies to implement chargeback policies, more accurately budget for expansion and measure the financial impacts of any changes.

Strip-level metering of both power and energy provides data center professionals the tools they need to monitor, measure, reduce and chargeback their growing power consumption costs of IT equipment, while minimizing any downtime that could potentially be caused by overloaded circuits or hung up IT equipment.

Create Thresholds and Alarms

The Avocent PM1000 PDUs deliver accurate, real-time current monitoring at the strip and circuit levels via the web manager, DSView 3 software or locally through an LED digital display. Users can set a current alarm threshold that, once exceeded, will cause the PDU to sound an alarm, send a notification message or both.

Integrate with Avocent Remote Access Solutions

Avocent remote access solutions include appliances that provide user connections to KVM, USB and serial ports from their equipment. The PDUs can directly connect to ports of an ACS 6000 (serial over IP appliance) or Unity (KVM over IP appliance) to share the same browser interface and IP address. This integration provides instant feedback when critical issues are being resolved remotely.

Combine with DSView 3 Software to Provide Enterprise Solution

DSView 3 software coupled with Power Manager provide a centralized management and reporting tool. The centralized approach reduces deployment time and speeds global changes to PDUs through the use of configuration templates. The Power Manager reporting option adds the ability to monitor, measure and trend IT energy consumption, cost and usage.

Quick Facts

- Measure and monitor power and energy consumption at the strip and circuit levels
- Create thresholds to generate alerts/ notifications
- Flexible installation - IP and serial interface options
- Chaining option allows multiple PDUs to share an IP or serial connection
- Supports external, environmental sensors for measuring temperature and other conditions
- Onboard data log for individual PDU activity logs and historical data
- Can be managed directly or integrated with other Avocent solutions using the DSView 3 software
- Optional DSView 3 Power Manager for historical reporting across multiple PDUs

Avocent can help you answer questions like:

- Do you have sufficient tools in place in order to understand the details about your current, voltage and power?
- Do you need to provide power to high amp equipment like blade servers and larger network switches?
- Do you know your energy consumption costs?
- When you install new equipment, how do you ensure that you have power available?
- How can you prevent overdrawing your power circuits to prevent unnecessary downtime?
- Do I need to supply a network connection for each metered PDU?

Features and Benefits

- **Strip-level and circuit-level metering with threshold and alert capabilities** Provides preemptive notification of all impending overload issues before they occur and simplifies the task of installing new equipment
- **Supports external sensors for environmental monitoring capability** Measuring and monitoring for temperature, humidity and airflow helps provide notification of any impending environmental issues
- **Onboard web interface with exportable data log** Can be installed for direct access right out of the box or it can be configured as part of a larger integrated solution using the DSView 3 software
- **IP and serial interface options** Options to install by connecting directly to the network or save IP connections by using the serial interface to connect directly to Avocent appliances already connected to the network
- **Daisy chaining up to five units** Saves the number of IP addresses or console and KVM ports that are required to manage all power distribution needs
- **Integration with DSView 3 software** Single interface for management of IT equipment and PDUs simplifies mapping of outlets to servers and other equipment, which reduces and minimizes power cycling the wrong equipment
- **Integration with DSView 3 Power Manager** Track historical trends in order to measure and monitor IT power consumption, capacity and costs; this will help you understand what issues exist and make more informed decisions in the future
- **Electronic Overcurrent Protection** An added layer of protection that gets activated in the event of minor overloads; during such events, outlets get turned off first instead of the primary overcurrent protection (OCP) getting tripped
- **5kW – 22kW power capacity with a mixture of C13 and C19 outlets** Simplifies the deployment of high-density racks that include a wide-range of equipment types and power requirements

Ordering Details

Part Number	Description
North America	
PM1001V-401	Avocent PM1000 0U Vertical 1-ph 208V, 24A with L6-30, 21 C13 and 3 C19 outlets
PM1002V-401	Avocent PM1000 0U Vertical 3-ph 208V, 24A with L21-30, 21 C13 and 3 C19 outlets
PM1003V-401	Avocent PM1000 0U Vertical 3-ph 208V, 40A with Hubbell CS8365C, 21 C13 and 3 C19 outlets
PM1004V-401	Avocent PM1000 0U Vertical 3-ph 208V, 48A with IEC309 60A, 21 C13 and 3 C19 outlets
PM1008V-401	Avocent PM1000 0U Vertical 3-ph 208V, 24A with L15-30, 21 C13 and 3 C19 outlets
International	
PM1005V-401	Avocent PM1000 0U Vertical 1-ph 220/230/240V, 32A with IEC 309 32A, 21 C13 & 3 C19
PM1006V-401	Avocent PM1000 0U Vertical 3-ph 380/400/415V, 16A with IEC 309 16A, 21 C13 and 3 C19
PM1007V-401	Avocent PM1000 0U Vertical 3-ph 380/400/415V, 32A with IEC 309 32A, 21 C13 and 3 C19
External Sensors	
PMHD-THS	temperature, humidity, air flow and dry contact combo sensor
PMHD-TS	temperature only sensor

Note: AMP values listed on the North American models are rated at 80% based on national electric codes.

Specifications

Mechanical

Size: 2.2 x 66 x 3.15 in (vertical)

Weight: 14.8 lbs (vertical without power cord)

Environmental

Operating Temperature: 50 to 113 F (10 to 45 C)

Storage Temperature: -40 to 149 F (-40 to 65 C)

Network Connection

Number: 1

Type: 10/100/1000 Ethernet

External Sensor Connections

Number: 2

Type: RJ45

Accessories Included

Rackmount kit, toolless mounting hardware with vertical models and outlet retention clips

Communications options supported

Browser, CLI, SNMP, Serial or IP (using DSView 3 software or supported Avocent appliances)

Standards

Approved Agency:

UL, FCC, cUL, CE, VCCI, C-Tick, CB

Warranty

Two Year

Avocent PM1000 PDU

0609-PM1000-DS-EN