# Metered + Switched PDUs

# Manage, Monitor and Control Power To All Your IT

## Product Highlights

### Unique Dual Power Inputs
The dual power inputs on the VMR protect the redundant dual power supply architecture found in higher end networking equipment. A dual power supply device can be supported across the dual power bus architecture of the VMR, negating the need for a second power controller which is normally required to preserve redundancy.

### Remote Power Control/Reboot
Reboot locked up equipment instantly without the need for costly site visits. Optionally turn attached equipment on or off at scheduled times, for example, when staff have gone home and at weekends, saving energy costs.

### Power Monitoring
Monitor power to all your IT devices and produce live, weekly, monthly and annual trending graphs, without any additional software, giving you unprecedented insight into how much power your individual rack or branch office is consuming.

### Temperature Monitoring
The VMR will constantly monitor your remote rack temperature level with its integral temperature sensor. If the temperature exceeds your pre-defined thresholds, you will be notified and the VMR can, if necessary, turn on external fans or air-conditioning to help bring rack temperature back to normal levels.

### Alarm Notification
The VMR can generate alarms to provide you with an advanced warning of problems with your equipment such as lost voltage or high rack temperatures. Alarms can be sent by email, SNMP, SYSLOG or audibly. This will increase network availability by allowing you to proactively identify issues before they become critical.

### High Power Support
The VMR Metered + Switched PDUs are available in a range of models and will support loads of up to 64 amps on one unit, providing comprehensive power management for high amp, enterprise class networking equipment.

## Total Power Management

**The VMR Metered + Switched PDU** gives you an unrivalled ability to manage, monitor, report and control power in each of your racks, wherever they are located. With dual power input feeds for full power redundancy, comprehensive reporting, power control including reboot, load shedding and scheduled on/off switching, temperature monitoring, event logging and proactive alarm notification, the VMR is a complete power solution for all your power management needs.

**Control** power to all your IT, without having to make a site visit to remote locations. The VMR allows you to perform a remote power reboot of any locked up device, wherever it is located in the world. Return your network to operational status as soon as a problem is detected and maximise uptime. Scheduled on/off switching on the controller will also allow you to more efficiently manage your power consumption by powering off equipment when it is not required.

**Monitor** the power of all your attached equipment so that you can better understand your power usage at each remote location. The VMR will measure amps, wattage, voltage and kilowatt-hours and log these measurements to its own non-volatile memory, alleviating the need for external storage of this data. The VMR's on-board Linux web server produces live, weekly, monthly and annual trending graphs and/or power reports so that you know exactly how much power each individual device*, rack or data centre is consuming over time; comprehensive power monitoring without additional software costs.

**Manage** all your power activity to identify issues before they impact on your service provision. The comprehensive activity logs on the VMR create a record of all your power switching, monitoring and reboot activity. By continuously monitoring power, conditions that are deteriorating will be highlighted, helping you increase network availability before power issues become crtitical and cause unnecessary downtime.

## FIVEYEAR WARRANTY

**Your IT is at the heart of your organisation. If it fails, business stops. Sentinel** has over fifteen years' experience in power and console management. With products located in thousands of mission critical IT facilities, ranging from offshore oil and gas installations to global 24/7 rolling news providers, backed up with the highest MTBF in the industry, our track record is second to none. Entrust your business continuity with **Sentinel.**

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## Key Features

### Power Distribution
- Unique Dual Power Input Feeds
- Resettable Circuit Breaker Protection
- Power Support from 16 amps to 64 amps total load per unit
- C13 and /or C19 Outlet Options

### Remote Power Control
- Individual Outlet Switching
- On/Off/Reboot/Default/Load Shedding
- Outlet Sequencing & Power Up Delay
- Scheduled On/Off/Reboot Switching
- Device Watchdog Monitoring with Auto Reboot

### Power Monitoring/Reporting
- Measure & Graph Power Consumption
- Meter & Report Amps, Wattage, Voltage and Kilowatt/hours
- Graph Power Metrics live, weekly, monthly or yearly
- True RMS Current Metering
- Outlet, Multi-Outlet and Total Device Metering
- No additional Software Licences required
- Power Data available via XML, CSV or ASCII
- Cisco Energywise ™ Compliant

### Temperature/Alarm Monitoring
- Temperature Monitoring, Logging and Alarming with Integral Sensor
- Alarming on Current or Rack temperature exceeded, Lost Communication, Failed Ping Command, Invalid Access Lock-out, Power Cycling, Lost Voltage and Buffer Threshold
- Audit Log of all user access, login/out times and command actions

### Security
- SSHv2 Encryption
- Remote Authentication: LDAP/Kerberos/RADIUS/TACACS+
- HTTPS/SSL Secure Web
- IP Address Filtering & Multi-Level Subscriber Directory
- Port Specific Password Protection

## High Amp Power Control for Multi Power Supply Networking

**The VMR-HD High Amp Metered + Switched PDU** is specifically designed to provide comprehensive power management and control for high amp, enterprise class networking equipment such as Cisco Nexus C7000 Switches, HP 7000 Blade Servers, Cisco Catalyst 6500 LAN switches and Sun Blade 6000s. You can now protect the multi power supply architecture of all your critical IT hardware with just one power controller.

The VMR-HD has dual or quad 32 amp power inputs which make it perfect for managing mission critical hardware such as catalyst switches and blade server chassis where multi power supply redundancy is an essential requirement. When considering a single input PDU for your power control, you would be forced to use a second unit to protect the power redundancy of the multi power supply architecture within your switch or blade server, increasing your project costs.

Equally, it is sometimes not easy to install one, let alone two, switched PDUs into an already cramped rack cabinet. The depth of high end enterprise networking equipment chassis means that there is little or no space to mount a vertical PDU at the rear of a cabinet. The VMR-HD is horizontally rackmountable, ensuring that it will easily fit into your equipment rack.

The VMR-HD High Amp PDU is the perfect tool for managing and controlling power to all your blade servers and other enterprise networking hardware.

| Description | Part Number |
|---|---|
| VMR-8HS16-3 Metered + Switched PDU 16A 240V (8) C13 Outlets | ST510100 |
| VMR-8HD16-3 Metered + Switched PDU Dual 16A 240V (8) C13 Outlets | ST510200 |
| VMR-16HD16-3 Metered + Switched PDU Dual 16A 240V (16) C13 Outlets | ST510300 |