



RPM

Remote Physical Monitor



Remote Physical Monitor (RPM) Product Specification/Installation Sheet

Description

The RPM is the new standard in physical and environmental monitoring devices designed to monitor temperature, humidity, airflow, water, voltage, current, motion, smoke, and contact closures and notify personnel when those conditions exceed user-defined limits. The RPM can also control power outlets.

The RPM relies on new Remote Intelligent Multi Sensors®, RIMS, that not only make environmental and security readings but can store those readings as well. Each RIMS is a Daisy Chain Sensor®, so multiple RIMS can be plugged into one RPM sensor port. RIMS can be up to 1000 ft. away from the RPM with no external power needed. Because each RIMS can make and store its own readings there is no data logging delays. Each RIMS has a battery backed clock so you can be assured each data point is properly recorded. RIMS generate events when internally monitored thresholds are broken.

There are four RIMS models:

Temperature/Humidity/Airflow/Dry Contact RIMS

- Accuracy to 0.1
- Monitor Temperature (Celsius, Fahrenheit, or Kelvin scale)
- Humidity
- True airflow readings
- Dry contact sensor can auto detect smoke, water, security, and motion sensors
- Dry output sensor that can change state on alarm

Voltage RIMS

- Power on/off/reboot 120V-250V x 2 power outlets
- Monitor current draw on each outlet
- 2 IEC Connections
- Change in RIMS power does not change outlet state
- Each outlet is independent
- Each outlet can change state on other sensor events
- Temperature sensor included

Dry Contact RIMS (10 Port)

- Monitor dry inputs
- Auto detect Smoke, Water, Security, Motion sensors
- Temperature sensor included

RS-232 RIMS

- Web-Enable to Monitor & Control approved manufacturers' power strips
- Temperature sensor included

Features and Benefits

LCD Screen makes critical information available at a glance:

- Sensor status
- Sensor value
- Alarm logs
- Network settings
- PoE (Power over Ethernet)
- IEC power connection
- DB-9 external SMS Modem connection
- Audible Alarm

Requires No Software

Network connectivity

- Supports SNMP v1, v2, v3
- Web access (HTTP)
- Supports DHCP
- SNTP – Simple network time to keep log times accurate
- Authenticated E-mail notification
- SNMP traps – Multiple trap destinations

Four user-defined thresholds for each RIMS:

- High critical
- High warning
- Low warning
- Low critical

Full password protection

Superior graphing capability

1 U of rack space required (19" or 24")



Web Interface

Summary						Modem	Email	Traps	Security	IP Settings	Defaults	SNMP	Help
Sensors													
ID	Type	Name	Value/Units	Status	Graph								
9:0	Temperature	Temperature on T10E	86° F	■									
9:7	Motion	Motion Sensor	Normal	■									
11:0	Temperature	Temp on 10 input RIMS in open	80.9° F	■									
11:7	Smoke	Smoke Sensor	Normal	■									
IP: 10.1.1.99			Name: RPM					Version : 1.0					

Summary Window



Graph Window
Temperature • RIMS

Front and Back Views

FRONT VIEW



LED Power and Alarm Indicators LCD Screen LCD Keypad

BACK VIEW



RMS Port SMS Modem Port Ethernet with POE IEC Power

Specifications

Power Requirements

Input 120-240 VAC, 50/60 Hz

Mounting

19" or 24" 1U or Desktop

Ambient Operating Environment, °F (°C)

-55°C to +40°C (-67°F to +104°F, 218°K to 398°K)
10-90% RH non-condensing

Communications

Network Interface HTTP, SNMP V1/V2c/V3, DHCP, SMTP, DNS, SNTP
RJ45 10/100 Base-T connector, MDX auto detect
SMS Modem Selectable baud rate, Alpha numeric SMS

Agency Listings

FCC Class A, CE, UL

LEDs

Power, Probe Status, PoE, Ethernet Activity, Sensor Tx, Sensor Rx

RIMS

Temperature/Humidity/Airflow/Dry Contact RIMS

Temperature with ranges -55°C to +40°C (-67°F to +104°F, 218°K to 398°K)

Humidity with ranges 0 to 100% RH

Airflow

Dry Contact -

(Auto Detect Smoke/Water/Security/Motion) Normally Open / Normally Closed

RS-232 RIMS

Web Enable and Auto Detect approved manufacturers' power strips

Temperature with ranges -55°C to +40°C (-67°F to +104°F, 218°K to 398°K)

Voltage RIMS

Input 120-240 VAC, 50/60 Hz

Output 120-240 VAC, 50/60 Hz

Temperature with ranges -55°C to +40°C (-67°F to +104°F, 218°K to 398°K)

10 Port Dry Contact RIMS

Dry Contact -

(Auto Detect Smoke/Water/Security/Motion) Normally Open / Normally Closed

Temperature with ranges -55°C to +40°C (-67°F to +104°F, 218°K to 398°K)

HEAT RIMS

Humidity, Temperature, Airflow, Dry Contact Remote Intelligent Multi Sensors®

Environmental issues are one of the leading causes for equipment failure. Excessive server intake temperatures, water leaks, and unauthorized human access to the data centers are common threats that are often ignored. It's impractical to have IT staff physically check conditions of each server within a data center. This then intensifies the importance of having an automated monitoring system.

The HEAT RIMS can monitor temperature, humidity, airflow, and dry contacts (such as a water, smoke, motion, or security sensor). Each HEAT RIMS allows for real-time monitoring of critical environmental issues.

With the HEAT RIMS you can stop costly replacement of equipment failure from temperature, humidity, or airflow that is outside specification and/or drastic temperature changes.

Each RIMS is a Daisy Chain Sensor®, so multiple RIMS can be plugged into any RPM Console Manager (CM) sensor port. RIMS can be up to 1000 ft. away from the RPM CM with no external power needed. Because each RIMS can store its own readings, there is no data logging delays. Each RIMS has a battery backed clock so you can be assured each data point is properly recorded. RIMS generate events when internally monitored thresholds are broken. The events are communicated by the RPM CM via e-mail, SNMP trap, or SMS modem. The RPM CM stores alarm logs and graphs the RIMS stored data.

Features and Benefits:

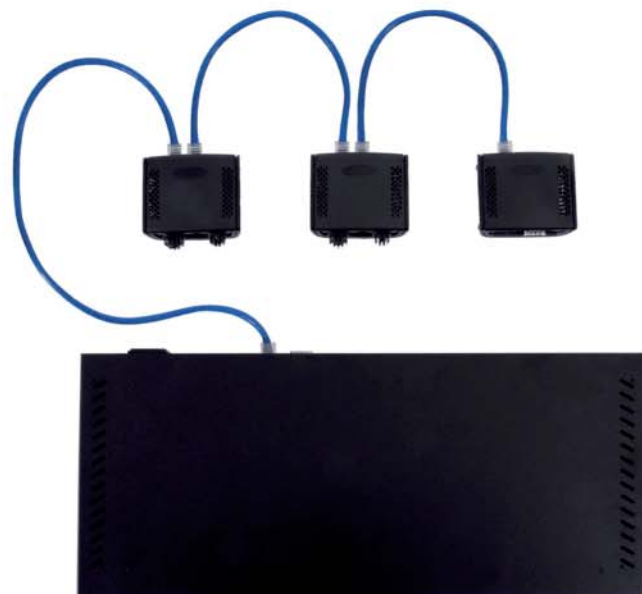
- Accuracy to 0.1
- Temperature sensor included (Celsius, Fahrenheit, or Kelvin scale)
- Humidity sensor included
- Airflow sensor included
- Dry contact sensor can auto detect smoke, water, security, and motion sensors



Enclosure Front



Enclosure Back



Daisy Chain Sensors® (RIMS) can be plugged into any RPM Console Manager (CM) sensor port

2 Port Power RIMS

Remote Intelligent Multi Sensors®

In today's environment one needs to manage power and energy consumption, this is an area where money can be saved. Data center managers need solutions that monitor, track, and manage IT equipment. The Two Port Power RIMS allow for monitoring of network power management with alerting capabilities of:

- Current Load (A)
- Voltage (V)

Each IEC port is independent and can run 120-250V regardless of what voltage the other port is running. The Two Port Power RIMS can be programmed to automatically turn on/off/reboot during an alarm condition. For example, if temperature is too high, the Two Port Power RIMS can automatically turn off a server before it overheats.

Each RIMS is a Daisy Chain Sensor®, so multiple RIMS can be plugged into any RPM Console Manager (CM) sensor port. RIMS can be up to 1000 ft. away from the RPM CM with no external power needed. Because each RIMS can store its own readings, there is no data logging delays. Each RIMS has a battery backed clock so you can be assured each data point is properly recorded. RIMS generate events when internally monitored thresholds are broken. The events are communicated by the RPM CM via e-mail, SNMP trap, or SMS modem. The RPM CM stores alarm logs and graphs the RIMS stored data.

Features and Benefits:

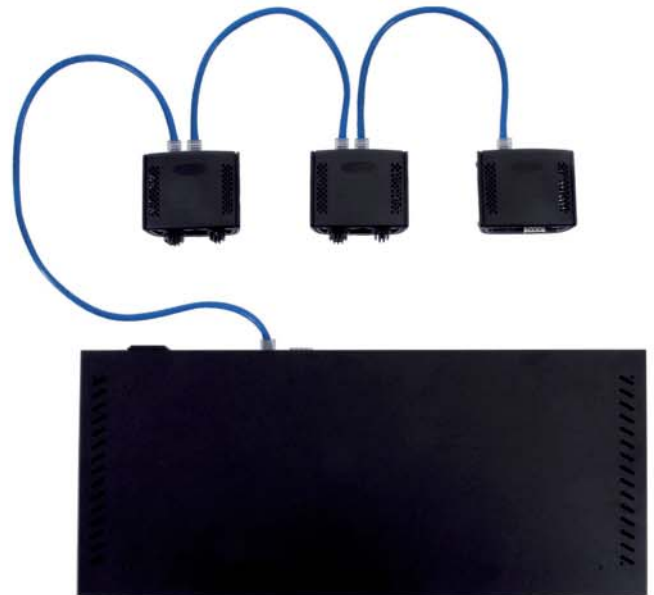
- Power on/off/reboot 120V-250V x 2 power outlets
- Monitor current draw on each outlet
- 2 IEC Connections
- Change in RIMS power does not change outlet state
- Each outlet is independent
- Each outlet can change state on other sensor events
- Temperature sensor included



Enclosure Front



Enclosure Back



Daisy Chain Sensors® (RIMS) can be plugged into any RPM Console Manager (CM) sensor port

10 Port Dry Contact RIMS

Remote Intelligent Multi Sensors (™ Pending)

The 10 Port Dry Contact RIMS monitors dry contact closures and dry contact sensors. The 10 Port Dry Contact RIMS automatically detects any of the following Uptime Devices dry contact sensors: smoke, water, security, gas, and motion.

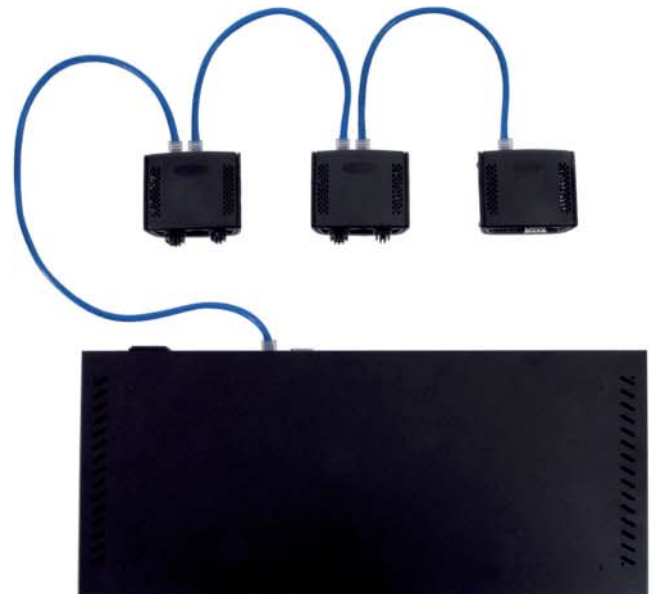
Each RIMS is a Daisy Chain Sensor™, so multiple RIMS can be plugged into any RPM Console Manager (CM) sensor port. RIMS can be up to 1000 ft. away from the RPM CM with no external power needed. Because each RIMS can store its own readings, there is no data logging delays. Each RIMS has a battery backed clock so you can be assured each data point is properly recorded. RIMS generate events when internally monitored thresholds are broken. The events are communicated by the RPM CM via e-mail, SNMP trap, or SMS modem. The RPM CM stores alarm logs and graphs the RIMS stored data.



Enclosure Front



Enclosure Back



Daisy Chain Sensors™ (RIMS) can be plugged into any RPM Console Manager (CM) sensor port

Features and Benefits:

- Monitor dry inputs
- Dry contact sensor can auto detect smoke, water, security, and motion sensors
- Temperature sensor included

Dry Contact Sensor Data Sheet



Wide Angle Motion Detector

- Fireproof ABS housing
- LED ON/OFF optional
- Automatic temperature compensation
- SMT adopted, anti-RFI & anti-EMI
- Pulse count optional
- Alarm output N.C./ N.O. optional



360° Motion Detector

- Ceiling mounted
- Fireproof ABS housing
- LED ON/OFF optional
- Automatic temperature compensation
- SMT adopted, anti-RFI & anti-EMI
- Pulse count optional
- Alarm output N.C./ N.O. optional



Smoke Sensor

- ASIC control
- Manual test, auto-reset
- Infrared photoelectric sensor
- Network output / LED indicator
- Thin structure design
- Strong adaptability to circumstance
- SMT adopted
- Dustproof, mothproof and anti-white light
- Low power indication



Natural Gas Detector

- Auto reset after alarm
- MCU process
- Sensor with high stability and low power consumption
- Auto check and indication for malfunction
- Detecting natural gas and LPG SMT adopted
- Electrovalve optional
- Support exhaust fan



Multi-Gas Detector-Natural Gas, LPG, CO

- High reliability sensor
- Auto-reset after alarm
- MCU processing adopted
- Malfunction auto-check indicator
- Alarm output N.C./ N.O. optional
- Dual sensor design
- Be able to work with electrovalve /exhaust fan
- SMT adopted, excellent stability
- Available for Natural gas, LPG, CO



Carbon Monoxide Detector

- Auto reset after alarm
- MCU process
- Sensor with high stability and low power consumption
- Auto check and indication for malfunction
- Detecting carbon monoxide
- SMT adopted
- Electrovalve optional
- Support exhaust fan

Door Security Switch



Panic Button



Industrial Door Security Switch



RS-232 RIMS

Remote Intelligent Multi Sensors®

Don't spend money replacing power strips with newer and more expensive IP addressable models. Using the RS-232 RIMS, you can web enable and control your current power strips. The RS-232 RIMS connects to your power strip's RS-232 port and reports power variable information to the RPM Console Manager (CM).

The RS-232 RIMS, with most power strip models, can also turn on/off/reboot individual receptacles. It can also be programmed to automatically send out a command to the power strip during an alarm condition. For example, if the temperature is too high the RS-232 RIMS can automatically turn off a server before it overheats.

Each RIMS is a Daisy Chain Sensor®, so multiple RIMS can be plugged into any RPM Console Manager (CM) sensor port. RIMS can be up to 1000 ft. away from the RPM CM with no external power needed. Because each RIMS can store its own readings, there is no data logging delays. Each RIMS has a battery backed clock so you can be assured each data point is properly recorded. RIMS generate events when internally monitored thresholds are broken. The events are communicated by the RPM CM via e-mail, SNMP trap, or SMS modem. The RPM CM stores alarm logs and graphs the RIMS stored data.

Features and Benefits:

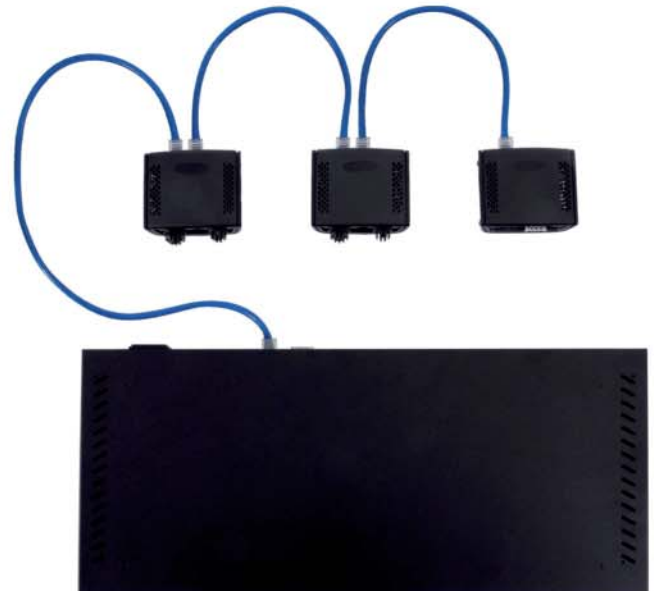
- Monitor and Control third party power strips: APC®, Eaton®, Liebert®, BayTech®, ServerTech®, Powerware®
(trademarks are properties of their respective owners)
- Temperature sensor included
(Celsius, Fahrenheit, or Kelvin scale)



Enclosure Front

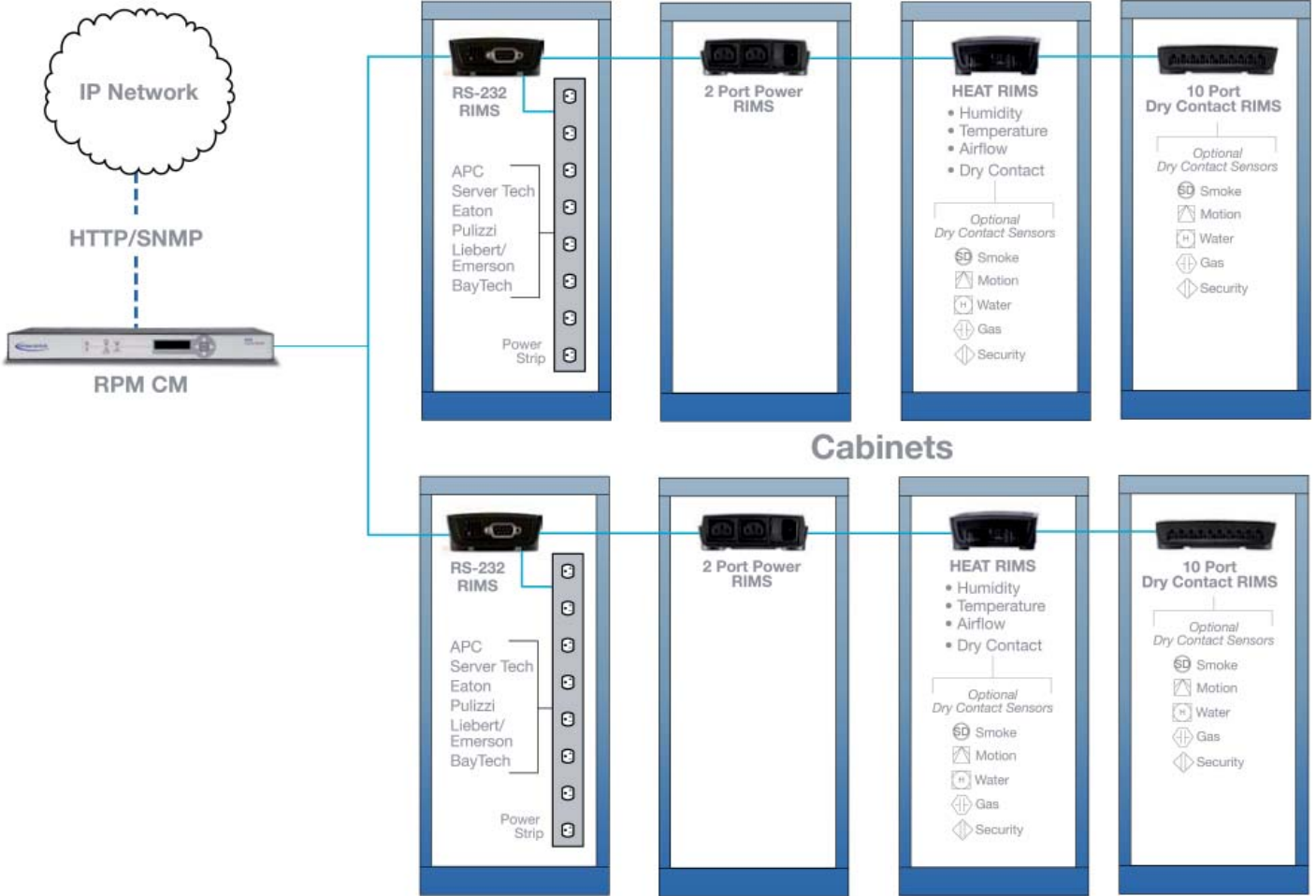


Enclosure Back



Daisy Chain Sensors® (RIMS) can be plugged into any RPM Console Manager (CM) sensor port

RPM System Network Layout



Also Available

Uptime Devices' SensorHubs allows you to easily monitor and manage all of your critical environmental needs in your home, security, small business, corporate, or government network. With these devices you will be able to maintain the safety of all your network server rooms at an affordable cost.

SH-2



Features

- 2 External sensor ports
- E-mail
- Full password protection
- Full SNMP capabilities
- Four user-defined thresholds
- Graphing
- Data encryption
- Temperature sensor included with SH-2
- Humidity & temperature sensor included with SH-2+
- Humidity & temperature combo sensor included with SH-2+i

SH-PRO



Features

- Internal temperature sensor that covers 1000ft² (93m²)
- 2 Serial ports
- 4 External sensor ports
- Fully compliant with operating systems
- Supports DHCP
- E-mail
- Full password protection
- Full SNMP capabilities
- Four user-defined thresholds



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