RACK MONITORING SYSTEM

...to complete your network
RAMOS (Rack Monitoring System) is designed to be deployed within a rack to monitor its internal and external environment. As a network attached device, RAMOS can report the status of sensors deployed in and around racks to any location worldwide and using SNMP traps can integrate with any network management software.

RAMOS OPTIMA is a suitable solution for monitoring with up to 8 intelligent sensors (example: with 8 dual sensors [T+H] up to 16 parameters). It is an ideal solution for single or few racks where less than 8 intelligent ports are required.

The Intelligent Monitoring Solution for your Enterprise Resources RAMOS Optima is a high-speed, accurate and intelligent monitoring device. The RAMOS Optima is a completely embedded host with a proprietary Linux like Operating System which includes TCP/IP stack, a built-in web-server and full Email and SNMP functionality.

RAMOS Optima can record all events in its database with a time stamp of when the sensor alarm was raised and the action took place. A standalone product with no external software dependencies, RAMOS Optima gives you the very best for your monitoring needs. It has 8 auto-sense intelligent sensor ports which work with a wide range of RAMOS intelligent sensors. It can use any combination of sensors to monitor temperature, humidity, water leakage, airflow, security and even control relays. RAMOS sensors can also be used to detect AC voltage and measure DC voltage. Our sensors include an integrated data collection and graphing package to spot trends in the airflow, temperature and humidity.

**RAMOS OPTIMA FEATURES:**

- Supports up to 8 autosense intelligent sensor ports
- Each intelligent Sensor port can be set to be input or output
- All Ramos Optima accessories are powered from monitoring device
- Built-in notification features – E-mail and SNMP traps
- Fully embedded TCP/IP and web-server
- Internal Linux Web-based interface for easy configuration and monitoring
- Battery backed clock for an accurate system date and time
- Network Management System integration
- Login for User and Administrator for better security

**TECHNICAL INFORMATION:**

- Size: 216 x 138 x 46 mm
- Voltage: 7 – 9 VDC, 1.2Amp
- Typical Power Consumption: 1.12 Watt, 0.15A
- Weight: 0.8 kg

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<table>
<thead>
<tr>
<th>Rack monitoring system Code</th>
<th>Description</th>
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<tbody>
<tr>
<td>RAMOS OPTIMA</td>
<td>Monitoring device RAMOS Optima (up to 8 Intelligent ports [In/Out]), 1x temperature sensor with 30cm cable length, power adapter with power cord, crossover patch cord cable 1.5m, 1U high bracket with screws and installation CD</td>
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<table>
<thead>
<tr>
<th>Intelligent Accessories for RAMOS Optima Code</th>
<th>Description</th>
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<tbody>
<tr>
<td>RMS-I-ST</td>
<td>Temperature sensor with 30cm cable (coupler RJ-45 included)</td>
</tr>
<tr>
<td>RMS-I-STH</td>
<td>One wire temperature and humidity sensor with 30cm cable (coupler RJ-45 included)</td>
</tr>
<tr>
<td>RMS-I-VC</td>
<td>4-20mA Converter with 1.5m cable</td>
</tr>
<tr>
<td>RMS-I-AS</td>
<td>Siren &amp; Strobe light with 1.5m cable</td>
</tr>
<tr>
<td>RMS-I-AF</td>
<td>Airflow sensor with 1.5m cable</td>
</tr>
<tr>
<td>RMS-I-DE-01</td>
<td>Smoke detector with 1.5m cable</td>
</tr>
<tr>
<td>RMS-I-DE-02</td>
<td>PIR motion detector with add 1.5m cable</td>
</tr>
<tr>
<td>RMS-I-DE-04</td>
<td>Spot water sensor with 4.5m cable</td>
</tr>
<tr>
<td>RMS-I-DE-06</td>
<td>Rope water sensor with 3m length detection cable, 6m non-detection cable and connection cable 1.5m</td>
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<tr>
<td>RMS-I-MK</td>
<td>Magnetic door contact with 4.5m cable</td>
</tr>
<tr>
<td>RMS-I-DRC</td>
<td>Dry contact with 4.5m cable</td>
</tr>
<tr>
<td>RMS-I-PWR-NO</td>
<td>AC-Sensor controlled relay normally open (110V/220V)</td>
</tr>
<tr>
<td>RMS-I-CON</td>
<td>Coupler CAT.5e RJ45-RJ45 for sensor cable extension, pack 10 pcs</td>
</tr>
</tbody>
</table>

1 can be extended by LAN cable (Cat. 5e/6)
2 can be extended by LAN cable (Cat. 5e/6) and coupler with RJ-45 connection
Accessories:

**RMS-I-ST**
Temperature sensor with 30cm cable. Semiconductor, microprocessor controlled type of the temperature sensor. The Cable can by extended up to 300m (Cat.5/6 LAN)

**RMS-I-STH**
One wire temperature and humidity sensor with 30cm cable length. Up to 8 dual sensors can be connected in device with 8 intelligent ports. Humidity range 0 – 100%.

**RMS-I-VC**
4-20mA Converter with attached LAN cable (Cat. 5) 1,5m. Converter can collect the analog values from a wide array of sensors.

**RMS-I-AS**
Siren & Strobe light with attached LAN cable (Cat. 5) 1,5m. 100db Siren sound and flashing strobe interval is 400x per minute. Cable can by extended up to 30m (cat.5/6 LAN)

**RMS-I-AF**
Airflow sensor with attached LAN cable (Cat. 5) 1,5m. Airflow data graphically displayed over time. On/off alarm signal of airflow.

**RMS-I-DE-01**
Smoke detector with attached LAN cable (Cat. 5) 1,5m. On/Off alarm signal of Smoke Detector. With 9V battery as backup, the RAMOS will still work as a smoke detector on its own.

**RMS-I-DE-02**
PIR motion detector with attached LAN cable (Cat. 5) 1,5m. Can be connected in chain up to 10 Motion Detector Sensors on a single port. 60°detection angle.

**RMS-I-DE-04**
Spot water sensor with 4,5m cable. Maximum cable extension is 150m. It is able to measure distilled water.

**RMS-I-DE-06**
Rope water sensor with 3m long detection cable and 6m non-detection cable. Attached LAN cable (Cat. 5) 1,5m. Maximum of the length extension cable run is 30m. Protects water sensitive equipment from potential disaster. This product detects battery Acid for short term exposure.

**RMS-I-MK**
Magnetic door contact with 4,5m cable. Maximum extension cable length is 300m. Open/closed contact switch.

**RMS-I-DRC**
Dry contact with 4,5m cable. It can be input or output. When used as an output it can supply up to 20 mA. Input voltage range is 0 to 5V. Open/Closed contact switch sensor.

**RMS-I-PWR-NO**
AC-Sensor controlled relay normally open (110V/220V). Attached LAN cable (Cat. 5) 1,5m. Maximum LAN cable is 30m. Build in 10A Fuse. C13 and C14 socket connection. Switch can be controlled by any sensor.

**RMS-I-CON**
Coupler CAT.5e RJ45-RJ45 for sensor cable extension, pack 10 pcs