

Vertiv™ Knürr® RMS III®

Constant Reliability with Remote Monitoring

Advantages

- Guarantees fault-free operation
- Early disturbance detection
- Incident logging
- Automatic monitoring simplifies
- Activates countermeasures in the event of a malfunction.
- Central status control of: filters, paper, toner, meter readings, inspection intervals, and much more.
- Sensors can be connected in any arrangement.

System Reliability and Availability

System and network management requirements mean the systems' ambient conditions must be monitored. Compliance with the required ambient parameters is extremely important for successful/continuous operation of high-grade components.

Management Software

Inadmissible fluctuations in temperature or humidity often cause hardware defects. Constant automatic monitoring of these parameters is therefore a basic requirement for safeguarding operability. All the relevant data can be recorded and forwarded directly to a higher-level management system, e.g. Nagios Liebert Trellis® with the RMS III®.

Alarm Consolidation and Control

Simply recording data does not suffice to ward off damages. When faults occur, short response times are aided by the monitoring system triggering actions automatically (e.g. activating additional fans).

Fast Response

When defined incidents occur, the RMS III® can immediately send a message as an "SNMP trap" to the management system or directly as an e-mail to a technician or an SMS gateway.





Vertiv™ Knürr® RMS III®

Description

- Compact construction Zero unit solution (for mounting outside the 19" installation area).
- Cost-effective orderly installation with Plug & Play concept.
- Convenient cabling with RJ11 and/or screw terminal sensor connections.
- TCP/IP connection via Ethernet.
- Configuration via SNMP and Web-Browser.
- Web access is password-protected and optionally encrypted (https).
- 3 different user levels.
- Freely programmable filter system (Boolean logic) for implementing all alarm conditions.
- Compatible with standard network-management and infrastructure-management systems such as Liebert Nform™ or Open-Source Software.
- Sensors for monitoring all relevant environmental influences (optional).
- Internal power supply for sensor equipment (no additional power supply necessary).
- Alarms via relay, network management or e-mail (SMTP).
- Support from Modbus/TCP.
- System time balancing with NTP servers.
- Support of MQTT

■ Technical data

- 1x Ethernet connector 10/100 Mbps.
- 6x 1-Wire
- 12x digital on/off connector.
- 1x RS485 connector.
- Up to 40 sensors.
- 4 digital relays outputs (50V).
- Operating voltage: 12 VDC.

■ Compliance

CE Marking cpmpliant with

- 2014/35/EU Low Voltage Directive (LVD)
- 2014/30/EU Electromagnetic Compatibility Directive (EMC)
- 2011/65/EU RoHS2 Directive.

■ Color

- RAL 7021, dark-grey.

Scope of delivery

- 1 x Knürr RMS III®.

Optional Items

- 1x Power supply. e.g.: 01.180.035.9000001
- 1x 19" Mounting Shelf for RMSIII 06.108.428.8001

■ How supplied

– Single parts.

W				Order No.	UP
350	42	170	RMS III®	06.108.401.8	1 pc





Combined sensor Temperature Humidity "Eco" (RMS III)

Quick and easy installation

- Insensitive to disturbances.
- No additional power supply required.

LUF20069

Technical data

- Temperature measurement range: 0...60°C.
- Accuracy : 2%.
- To be connected to 1-wire port.

Scope of delivery

- 1 x sensor.

Model	Order No.	UP
ECO	06.108.421.9	1 unit



RMS20006

Door Contact Sensor

No additional magnet required

- Magnet bridge sensor works on all magnetic conductive materials (no special mating part required).
- Can also be used for monitoring side panels and roof.

Technical data

- Temperature range: -20° C to +70° C.
- Switching voltage, max. 200 VDC.
- Switching current, max. 500 mA.
- To be connected to digital IN port.

■ Scope of delivery

- -1x sensor with 4 m connection cable.
- 1 x mounting kit.

06.108.115.9	1 unit	
Order No.	UP	



RMS III

Avoids dew

- Insensitive to disturbances.
- Additional power supply required.

RMS20019

Technical data

- Air measurement range 30 90 %.
- Accuracy: 2%.
- To be connected to 1-wire port.

Scope of delivery

-1x sensor with RJ45 port.

Order No.	
06.108.411.9	1 unit



Water Sensor

Conductive water spot sensor

- Detects presence of water.

Technical data

- Operating voltage: max. 24 VDC.
- To be connected to 1-wire port.

■ Scope of delivery

- 1 x sensor with 2 m connection cable.
- 1 x mounting bracket.

Order No.	
06.108.418.9	1 unit

Sends signal to IT Department

- Optical smoke detector with VdS
- For early fire detection with smoke emission.
- Power supply provided via RMS compact.
- Standard cable length, 4 m.

Technical data

- Operates between -20°C and +75°C.

Scope of delivery

- 1 x sensor with 4 m connection cables.
- -1x mounting kit.
- To be connected to digital IN port.

0.00 75	00400 044 0 1	
Ø 90 75	06.108.211.9 1 unit	

Vibration Sensor

Protection against vandalism

- Detects vibrations.
- Theft prevention.
- Reset possible via Viewer software.
- 1 x sensor with 4 m connection cables
- To be connected to digital IN port.

Order No. UP	06108 213 9	1 Lunit
	Order No.	

Passive Infrared Movement Sensor

Security

- Room monitoring with state-of-the-art technology.
- Technical data
 - VdS approval: Classes A + B.
 - Range of volumetric lens: 2 16 m.
 - Long lens range: 29 50 m.
 - Curtain lens range: 17 30 m.
 - Manipulation monitoring.

- Digital fault evaluation.
- Corner or wall mounting.
- To be connected to digital IN port.

■ Scope of delivery

- 1 x sensor with 4 m connection cable.
- 1 x mounting kit.

Order No.		
06.108.214.9	1 unit	

Power over Ethernet (PoE) Update Set

Save on cabling

- Saves on costly power supply installations (e.g. WLAN access points) or enables centralized UPSs for decentralized equipment (e.g. IP phones).
- Using the PoE update set, the RMS can therefore support installations with the corresponding UPS concepts and/or nonstandard IDF room.

■ Technical data

- Input: 48 V DC, 400 mA.
- Output: 12 V DC (12 W).
- Operating temperature: 0° to 40° C.
- Storage temperature:
- -40° to 70° C.
- Operating air humidity: 10% to 80% rel. humidity.

Dimensions

- Length: 81 mm.
- Width: 52 mm.
- Height: 28 mm.

Approvals

- EMI: FCC Part 15 Class B, CE Class B.
- Safety: UL, TUV.

Scope of delivery

- 1 x PoE adapter.
- 1x mounting bracket for easy attachment to the RMS (similar to the classic power supply unit mounting bracket).

How supplied

– In sets.

	Order No.	
PoE update set	06.108.230.8	1 unit

Detects smoke-free gases and triggers

- Used for detecting carbon monoxide emitted by burning fire-retardant cables.
- Sends signals carbon monoxide to the RMS and triggers an alarm.
- Standard cable length, 4 m.

Technical data

- Operating voltage: 12 VDC (± 20%).
- Power consumption: approx. 190 mA (idle) approx. 280 mA (alarm).
- Sensitivity: 100 ppm CO.
- Ambient temperature:
- -15° C to 40° C.
- Piezo alarm: approx. 85 dB(A) at 3 m away.
- Protection rating: IP 20.
- Switching output 12 V DC: Max. 170 mA.
- Relay output: Changeover contact, max. 5 A 230 V DC, max. 5 A 30 V DC.
- Reset: automatic when the gas concentration falls below sensitivity level.
- To be connected to digital IN port.

Dimensions

- Length: 140 mm.
- Width: 125 mm.
- Height: 40 mm.

■ Color

- White.

Scope of delivery

- 1 x sensor.
- 1 x sensor connection cable.
- 1 x Mounting kit.
- 1 x Instructions

How supplied

- In sets.

Model	Order No.	
Carbon monoxide alarm sensor	06.108.211.8	1 unit

Dimensions in	n mm:			Conversion:
W = Width	h = Installation height	U = Standard rack unit	kg = Weight	1 mm = 0.03937 inch
H = Height	d = Insertion depth	(1 U = 44.45 mm)		1 kg = 2.2046 pounds
D = Depth	L = Length	UP = Packaging unit		



RMS III® Technical Data

• Ethernet: 100 Mbit

HTTP

DHCP

SNMP v1

• SNMP v2/3: future

SNMP Trap

Trap destinations: 5

SNTP

SMTP

SMTPv3 TLS

• E-mail Destinations: 5

SMS/ netGSM /RS232

SMS Destinations: 5

Logger

Logger reccords: 250.000

MQTT

IPv6

Certificate Upload

DO Local conditions

• 1-Wire sensors: 16

1-Wire UNI support

RS-485 support

RS-485 sensors: 24

Modbus /TCP

Email Alarm reminder

Email Periodical Status

• **Power Input 1:** 9-30V

DI (Digital Inputs): 12

DO (Digital Outputs): 4

DO max load: 50V/1A

• Operating temperature: -30-85°C

New in RMS III®

Supports broad range of sensors

- 1-wire, Digital, RS485 sensors
- 4 Relays utputs

Features

- Boolean Logic
- State- of-the Art secure network protocols
- Accessfilter (Device Firewall)
- Cloud Interface already built in (MQTT)
- Screw Terminal Connectors for Digital Sensors
- Local Log

