Knürr
RMS Compact II®

2.82 to 2.85

Knürr RMS Compact II®

Damage prevention with checks and controls

System and network management requirements mean the systems' ambient conditions must be monitored. Reliability and system availability are indispensable. Compliance with the required ambient parameters is extremely important for the fault-free operation of high-grade components.

Inadmissible fluctuations in temperature or humidity often cause hardware defects. Constant automatic monitoring of these parameters is therefore a basic requirement for ensuring properly functioning operability.
With the rack monitoring systems offered by Knürr, this information can be recorded and forwarded directly to a higher-level

management system, e.g. Nagios Liebert Nform™.

This recording is not, however, sufficient to ward off damages. For short response times when faults occur, it is helpful if the monitoring system can perform actions automatically (e.g. activate additional fans).

When defined incidents occur, the Knürr RMS Compact II® 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. Rapid fault-finding and removal is extremely valuable!

The ability to connect additional sensors to monitoring systems not only allows racks to be monitored – so too can complete rooms or building sections. All important environmental parameters of a system can consequently be recorded and evaluated in a simple and straightforward way.

The benefits of Knürr's modern rack monitoring system:

- Guarantees fault-free operation
- Detects disturbances early
- Logs incidents
- Makes service assignments easier with automatic monitoring
- Activates countermeasures in the event of a fault
- Central control of consumables (filters, paper, toner, meter readings, inspection intervals, etc.)
- Connection of up to 12 sensors in any arrangement

Knürr RMS Compact II®

RMS20013

RMS20015

■ Description
- Compact construction - Zero unit solution (for mounting outside the 19" installation area)
- 19" installation with adapter bracket
- Safe clamping of all connected cables with integrated cable clamping bracket
- Cost-effective orderly installation with Plug & Play concept
- Convenient cabling with RJ45 sensor
- TCP/IP connection via Ethernet (10/100 Base T)
- 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 systems – HPOpenView, Cabletron Spectrum, Castlerock, IBM Netview, IBM Tivoli, MG-Soft, Compaq Insight Manager, SUN NetManager, etc.
- Sensors for monitoring all current environmental influences (optional)
- Internal power supply for sensor equipment (no additional power supply necessary)
- Alarms via LEDs, relay, network management or e-mail (SMTP)
- Syslog support for continuous external data storage
- System time balancing with NTP servers

■ Technical data
- 12 universally usable sensor inputs for temperature sensors, humidity sensors, digital (on/off) or analog sensors (0...10V)
- 3 digital outputs (2 x relay, max. 3A at 230VAC, 1x 750mA at 48VDC)
- Power supply: 100 – 240 VAC
- Operating voltage: 12VDC

■ Approvals
- CE Symbol in acc. with Low Voltage Directive 73/23/EEC, EMC directive 89/336/EEC

■ Color
- RAL 7021 dark gray

■ Supply schedule
1 Knürr RMS Compact II
1 power supply
2 19" mounting brackets
1 power supply mounting bracket
1 CD ROM (with manual, MIB file)

■ How supplied
- Flat-packed kit

W	H	D	Model	Order no.	UP
350	42	170	RMS Compact II®	06.108.200.8	1 set

LUF20069   RMS compact-specific

ECO Temperature Sensor

■ Description
- Insensitive to disturbances
- No additional power supply required
- Standard cable length, 4 m
- The sensor does not have to be recalibrated

■ Technical data
- Temperature measuring range, 0-60ºC
- Accuracy: +/- 5%

■ Supply schedule
1 sensor
1 mounting kit

W	H	D	U	h	d	kg	Model	Order no.	UP
							ECO	06.108.220.9	1 unit

RMS20019   (similar to picture)
RMS compact-specific

Humidity Sensor

■ Description
- Insensitive to disturbances
- No additional power supply required
- The sensor does not have to be recalibrated

■ Technical data
- Humidity measuring range, 30-90%
- Accuracy: +/- 5%

■ Supply schedule
1 sensor with RJ45 port
1 mounting kit

Order no.	UP
06.108.212.9	1 unit

RMS20005

Smoke Detector

■ Description
- Optical smoke detector with VdS approval
- 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

■ Supply schedule
1 sensor with 4 m connection cable
1 mounting kit

W	H	D	Model	Order no.	UP
Ø 90	75			06.108.211.9	1 unit

2.83

RMS20033

AC Voltage Monitoring

■ **Description**
- Monitors the AC power supply via an IEC Euro connector
- Signals status via an integrated signal cable to the RMS Compact

■ **Technical data**

Monitored AC voltage:	230 VAC 50/60 HZ
Connections:	IEC plug, RJ45 socket

■ **Supply schedule**
1 sensor
1 mounting kit

W	H	D	U	h	d	kg	Model	Order no.	UP
								06.108.222.9	1 unit

RMS20006

Door Contact Sensor

■ **Description**
- Magnet bridge sensor, works on every magnetic conductive material (no special mating part required)
- Can also be used for monitoring side panels and roof
- Standard cable length, 4 m

■ **Technical data**
- Operates between -20°C and +70°C
- Switching voltage, max. 200 VDC
- Switching current, max. 500mA

■ **Supply schedule**
1 sensor with 4 m connection cable
1 mounting kit

W	H	D	Model	Order no.	UP
				06.108.215.9	1 unit

RMS20032

Fan Speed Sensor

■ **Description**
- No additional power supply required
- Automatic detection as analog sensor
- Does not have to be recalibrated
- Offset and alarm parameters can be set in RMS

■ **Technical data**
- Measuring range: 0 to 0.8 l/s
- Non-linear measurement, values table:
  < 0 m/s < 1 V
  0 m/s 1 V
  1 m/s 1.7 V
  2 m/s 2.9 V
  3 m/s 4.1 V
  4 m/s 5 V (6 V max.)

■ **Supply schedule**
1 sensor with 4 m connection cable
1 mounting kit

W	H	D	U	h	d	kg	Model	Order no.	UP
20	39	9						**06.108.218.9**	1 unit

RMS20031

Water Sensor

■ **Description**
- Detects presence of water

■ **Technical data**
- Operating voltage: max. 24 VDC

■ **Supply schedule**
1 sensor with 2 m connection cable
1 mounting brackets

W	H	D	U	h	d	kg	Model	Order no.	UP
								06.108.217.9	1 unit

RMS20019

Vibration Sensor

■ **Description**
- Detects vibrations
- Theft protection
- Reset possible via Viewer software

■ **Supply schedule**
1 sensor with 4 m connection cable

W	H	D	U	h	d	kg	Model	Order no.	UP
								06.108.213.9	1 unit

RMS20032

Passive Infrared Movement Sensor

■ **Description**
- Room monitoring with the latest state-of-the-art technology

■ **Technical data**

- VdS approval	Classes A + B
- Volumetric lens range	2 - 16 m
- Long lens range	29 - 50 m
- Curtain lens range	17 - 30 m

- Manipulation monitoring
- Digital fault evaluation
- Corner or wall mounting

■ **Supply schedule**
1 sensor with 4 m connection cable
1 mounting kit

W	H	D	U	h	d	kg	Model	Order no.	UP
								06.108.214.9	1 unit

Dimensions in mm: W = Width
H = Height
D = Depth
h = installation height
d = useful depth
L = length

U = standard height unit
1 U = 44.45 mm
UP = unit of packaging
kg = weight

 = Express item

Conversion: 1 mm = 0.03937 inch   1 kg = 2.2046 pound

Sensor Cable

■ **Description**
- With 4 m length the cable is used for connecting further analog/ digital sensors or alarm outputs to the sensor input of the Knürr RMS compact II.
- One end of the cable has an RJ45 connection. The other end is free.
- The RMS automatically detects a sensor, which is connected with this cable, as an analog sensor.
- Using the cable a sensor can be supplied with 12 V voltage.

■ **Technical data**
Length, 4 m

■ **Supply schedule**
1 cable
1 layout overview

■ **How supplied**
Flat-packed kit

Model	L	Order no.	UP
Analog Sensor Cable	4000	**06.108.225.9**	1 unit
Digital Sensor Cable	4000	**06.108.224.9**	1 unit

Sensor Extension Cable

■ **Description**
- The cable is used for extending RMS compact II sensors.
- It consists of a cable with a connected RJ45 plug and a connected RJ45 socket.

■ **Technical data**
Length   3 m and 10 m

■ **Supply schedule**
1 cable

■ **How supplied**
Flat-packed kit

Model	L	Order no.	UP
Sensor Extension Cable	3000	**06.108.223.1**	1 unit
Sensor Extension Cable	10000	**06.108.223.5**	1 unit

Power over Ethernet (PoE) Update Set

■ **Description**
- PoE stands for power supply "over" an Ethernet cable. This saves on costly power supply installations (e.g. WLAN access points) or enables centralized UPS for decentral equipment (e.g. IP phones).
- Using the PoE Update Set the RMS can therefore support installations with the corresponding UPS concepts and/or "broom closet" installations.

■ **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

■ **Supply schedule**
1 PoE Adapter
1 mounting bracket for easy attaching on the RMS (similar to the classic power supply mounting bracket)

■ **How supplied**
Flat-packed kit

Model	Order no.	UP
PoE Update Set	**06.108.230.8**	1 unit

RMS20032

Carbon Monoxide Alarm Sensor

■ **Description**
- Used for detecting carbon monoxide caused by the burning of fire retardant cables.
- Sensor signals carbon monoxide to the RMS and emits a loud alarm sound itself (as carbon monoxide is toxic).
- Standard cable length, 4 m
- The RMS automatically recognizes this sensor as a digital sensor

■ **Technical data**
- Operating voltage: 12 V DC (± 20 %)
- Power consumption: approx. 190 mA (calm) 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
- Activated 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

■ **Dimensions**
- Length, 140 mm
- Width, 125 mm
- Height, 40 mm

■ **Color**
White

■ **Supply schedule**
1 sensor
1 sensor connection cable
Mounting material
Instructions

■ **How supplied**
Flat-packed kit

Model	Order no.	UP
Carbon Monoxide Alarm Sensor	**06.108.211.8**	1 unit

2.85