

iQdata RMS 442



Similar to figure

Monitoring system to control temperatures, door opening, smoke, leakage and much more. Compatible with all iQdata RMS sensors.

The iQdata RMS 442 is used to monitor small rooms, IT cabinets or outdoor cabinets. The alarm and alarm thresholds are freely adjustable.

The alarm can be given via various channels, such as SNMP, e-mail, potential-free relays, sirens.

Article number

7808010 iQdata RMS 442

Dimensions / weight

Width (W): 206.00 mm
Length (L): 79.40 mm
Height (H): 33.10 mm
Weight: 0.7 kg

Ambient conditions & protection rating

Maximum height 0 – 3.000m
Temperature (operating) 0..60 °C
Temperature (storage) -25..85 °C
Relative humidity (operating) Not condensating
Relative humidity (storage) Not condensating

Power supply

Power supply: 12 VDC 1A mains adapter
Power consumption: 3-10 Watt
Current consumption: 120 mA
External earthing: Yes

Inputs/ outputs

Analogue sensor inputs: 4x RJ12 Ports
Digital inputs: 4x potential-free inputs

Alarm outputs:	2x 12VDC max. 0.25A
CAN Ports	2x CAN open port (for CAN sensors or extension units)

Interfaces

USB:	1x miniAB HS-USB 2.0 (for web cameras)
Network:	1x 10/100 Mbit/s

Protocols

DHCP, HTTP, HTTPS, SNMP v1, SNMP v2c, SNMP v3, SNMP TRAP, SNMP GET, SMTP, SSL, FTP, Syslog, TLS, RADIUS,

Status indicators

LED indicator:	Power / ACT, network activity, relay status E1 & E2, Error LED
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Features

- Multilanguage Interface**
The RMS has a web interface with the option to select different languages.
- Watchdog timer:**
RMS 442 has an integrated watchdog timer with complete NTP synchronisation.
- Sensor graphs**
The sensor data can be displayed as a graph in the web interface. Here, it is possible to switch between seconds, minutes, hours and days. The sensor data can be exported as XML or CSV.
The data can be retrieved from the interface or downloaded to Syslog or FTP or stored on SD card.
- Configurable logic**
Via the web interface, various logical connections for warnings, alarms and notifications can be set up to avoid unplanned downtimes.
- Virtual sensors:**
A large number of virtual elements can be created. These can be used in the logical connections.
E-Mail, SNMP trap, SMS notifications (GSM or USB modem required), Timer, Trigger, Ping, IP cameras, groups, SNMP get.
- Web cameras:**
Up to 4 web cameras can be integrated with RMS 442.
The display is then available with a resolution of up to 640x480px.
- Integrated temperature sensor:**
RMS 442 system from SCHÄFER IT-Systems has an integrated temperature sensor.
This makes it possible to monitor the temperatures prevailing in the device in order to maintain the device-specific ambient temperatures.
- Up to 128 sensors:**
Up to 128 sensors can be monitored (requires the extension unit 7808100)
- Support of third-party sensors:**
A variety of third party sensors are supported.
- Integrated web server:**
With the integrated web server, sensor data can be displayed without additional installation of software and all settings can be made on the system.

Material & installation

Housing:	1mm sheet steel
Colour:	RAL 9005
Installation:	Stand alone or 19" (optional kit must be ordered separately)

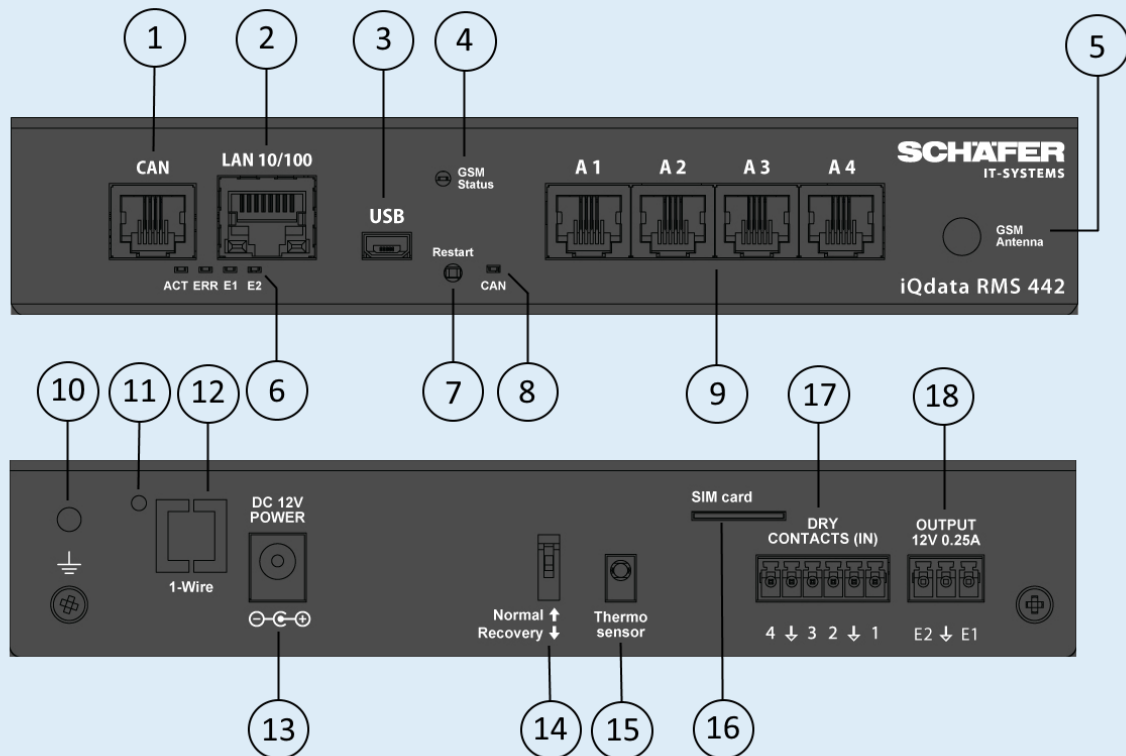
Standards and guidelines

2006/95/EC	Low voltage directive
2004/108/EC	EMV guideline
EN 60950-1:2006	Information technology equipment. Safety. General requirements.
EN 61326-1:2006	Electrical equipment for measurement, control and laboratory use.
EN 61000-4-2:1995	Electrostatic discharge immunity test.
EN 61000-4-3:2006	Radiated, radio-frequency, electromagnetic field immunity test.
EN 61000-4-4:2004	Electrical fast transient/burst immunity test.
EN 61000-4-5:2006	Testing and measurement techniques - Surge immunity test.
EN 61000-4-6:2007	Immunity to conducted disturbances, induced by radio-frequency fields.
EN 61000-4-11:2004	Voltage dips, short interruptions and voltage variations immunity tests.

Scope of delivery

1x RMS 442	1x connector plug 3.5mm 3-pole
1x patch cable RJ45 (1m)	1x connector plug 3.81mm 3-pole
1x Mains adapter 12VDC 1A	1x MiniUSB to USB cable
1x Quick start guide	4x Self-adhesive rubber buffers

Connections



1. "CAN"	Digital contact RJ12 for connection of CAN sensors and CAN extensions on a CAN bus with auto-sensing
2. "LAN 10/100"	Ethernet 10/100 Base-T-Port
3. "USB"	to connect a USB camera or reset the device
4. "GSM STATUS"	displays the GSM SIM card status. Flashing = Status ok (OPTIONAL)
5. "GSM ANTENNA"	Contact for GSM antenna in case of integrated GSM modem (OPTIONAL)
6. "LEDs: "ACT"	indicates the device status, E1, E2 signal 12V relay status
7. "RESTART"	restarts the device
8. LED: "CAN"	displays CAN bus status
"CAN" flashes slowly	No connection
"CAN" flashes fast	Configuration in progress
"CAN" lights up permanently	connected to CAN device
9. "A1..A4"	8x RJ12 analogue & digital sensor inputs with auto-sensing
10.	external earthing M4 internal thread
11. "1-WIRE STATUS"	to activate the 1-WIRE bus internal switch to "ON".
LED lights green	1-WIRE module is switched on
12. "1-WIRE"	serial communication protocol, for communication via data line plus ground reference between Master (RMS 442+) and 1-Wire Slave device
13. "DC 12V POWER"	Power supply DC 12V 2A via power supply unit
14. "DIP-SWITCH"	"Normal" ↑ Off = normal status / "Recovery" ↓ On = factory setting
15. "THERMOSENSOR"	Internal temperature sensor ± 1.0°C
16. "SIM"	SIM card slot with ejector for GSM modem (OPTIONAL)
17. "DRY CONTACTS 1...4"	potential-free inputs
18. "OUTPUT 12V 0.25A"	2x 12VDC max 0.25A Alarm outputs