

## iQdata RMS 842+



Similar to figure

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

The iQdata RMS 842+ 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

**7808020** iQdata RMS 842+

### Dimensions / weight

<b>Width (W):</b>	440.00 mm
<b>Length (L):</b>	79.40 mm
<b>Height (H):</b>	44.45 mm
<b>Weight:</b>	1.2 kg

### Ambient conditions & protection rating

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

### Power supply

<b>Power supply:</b>	90-240 V, IEC C14, 2 A fine wire fuse, power connection via IEC plug
<b>Power consumption:</b>	3-10 Watt
<b>Current consumption:</b>	120 mA
<b>External earthing:</b>	Yes

## Inputs/ outputs

<b>Analogue sensor inputs:</b>	8x RJ12 Ports
<b>Digital inputs:</b>	12x potential-free inputs
<b>Alarm outputs:</b>	2x 12 VDC max. 0.25 A
<b>Relay outputs:</b>	2x Relay ports NO/NC
<b>CAN Ports</b>	2x CAN open port (for CAN sensors or extension units)

## Interfaces

<b>USB:</b>	1xminiAB HS-USB 2.0 (for web cameras)
<b>Network:</b>	1x 10/100 Mbit/s
<b>SD Card:</b>	1x SC Card Slot

## Protocols

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

## Status indicators

<b>LED indicator:</b>	Power / ACT, network activity, 12V relay status E1 & E2, Error LED, 2x relay status 1&2
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## Features

### Multilanguage Interface

The RMS has a web interface with the option to select different languages.

### Watchdog timer:

RMS 842+ 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), Timers, Trigger, Ping, IP cameras, groups, SNMP get.

### Web cameras:

Up to 4 web cameras can be integrated with RMS 842+. The display is then available with a resolution of up to 640x480px.

### Integrated temperature sensor:

RMS 842+ 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.

### Message via potential-free relays:

The RMS 842+ has two additional potential-free relays with changeover contact. Thus, alarm messages can be given out e.g. to GLT systems or USVs.

## Material & installation

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

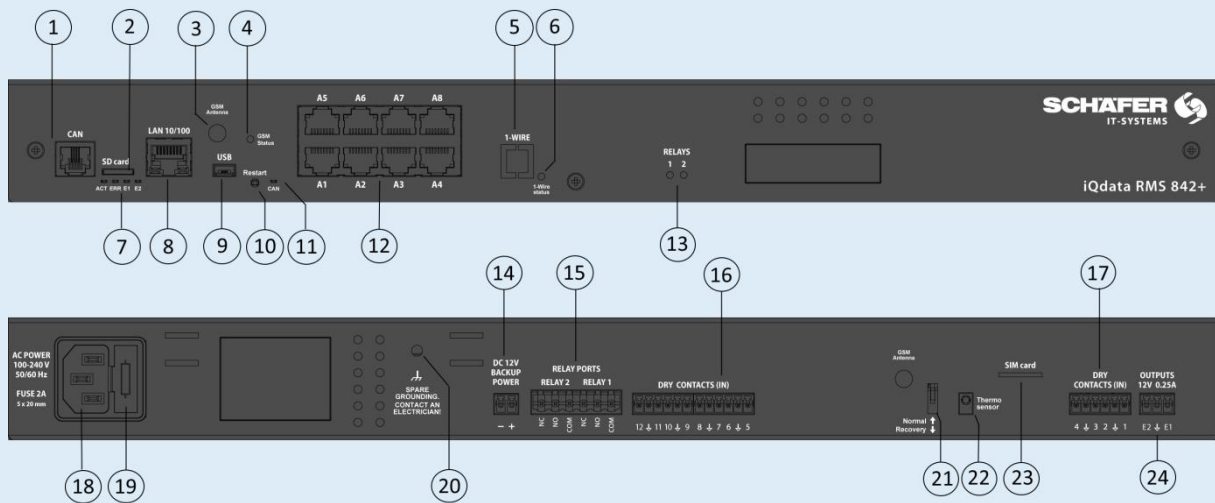
## Standards and guidelines


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

## Scope of delivery

1x RMS 842+	1x connector plug 3.5mm 3-pole
1x patch cable RJ45 (1m)	1x connector plug 3.81mm 3-pole
1x IEC supply cable IEC C13 230 V AC	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. "SD"	SD, MicroSD card slot with ejector, for data storage
3. "GSM ANTENNA"	Contact for GSM antenna in case of integrated GSM modem (OPTIONAL)
4. "GSM STATUS"	displays the GSM SIM card status. Flashing = Status ok (OPTIONAL)
5. "1-WIRE"	serial communication protocol, for communication via data line plus ground reference between Master (RMS 842+) and 1-Wire Slave device to activate the 1-WIRE bus internal switch to "ON".
6. "1-WIRE STATUS"	LED lights green 1-WIRE module is switched on
7. "LEDs: "ACT"	indicates the device status, E1, E2 signal 12V relay status
8. "LAN 10/100"	Ethernet 10/100 Base-T-Port
9. "USB"	to connect a USB camera or reset the device
10. "RESTART"	restarts the device
11. 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
12. "A1..A8"	8x RJ12 analogue & digital sensor inputs with auto-sensing
13. "LEDs: RELAYS 1, 2"	indicates relay status
14. "DC 12V"	Additional voltage output
15. "RELAYS 1, 2"	Relay outputs
16. "DRY CONTACTS 5...12"	potential-free inputs
17. "DRY CONTACTS 1...4"	potential-free inputs
18. "POWER INPUT"	Power supply 100-240V 50/60Hz IEC C14
19. "FUSE"	2A 5x20mm fine wire fuse
20. 	external earthing M4 internal thread
21. "DIP-SWITCH"	"Normal" ↑ Off = normal status / "Recovery" ↓ On = factory setting
22. "THERMOSENSOR"	Internal temperature sensor ± 1.0°C
23. "SIM"	SIM card slot with ejector for GSM modem (OPTIONAL)
24. "OUTPUTS 12V 0.25A"	2x 12VDC max 0.25A Alarm outputs