iQdata RMS 842+ with LTE modem

Image similar

Monitoring system with integrated LTE modem for monitoring temperatures, opening of doors, smoke, leaks, etc. Compatible with all iQdata RMS sensors.

The iQdata RMS 842+ with LTE modem is used for monitoring small rooms, IT cabinets or outdoor cabinets. The alarm and the alarm thresholds can be set freely.
The alarm can be output through various means such as via SMS, SNMP, e-mail, potential-free relay or siren.

Article number	
7808021	iQdata RMS 842+ with LTE modem

Dimensions/weight	
Width (W):	440.00 mm
Depth (D):	79.40 mm
Height (H):	44.45 mm
Weight:	1.2 kg

Environmental conditions and degree of protection	
Maximum height	0–3000 m
Temperature (operation)	0–60 °C
Temperature (storage)	-25–85 °C
Relative humidity (operation)	5 – 80% RH. Non-condensing
Relative humidity (storage)	5 – 80% RH. Non-condensing

Power supply	
Power supply:	90–240 V, IEC C14, fine-wire fuse 2 A Voltage connection via IEC plug
Power consumption:	3–10 watt
Current consumption:	120 mA
External earth connection:	Yes

PRODUCT DATA SHEET

Inputs/outputs	
Analogue sensor inputs:	8x RJ12 ports
Digital inputs:	12x potential-free inputs
Alarm outputs:	2x 12 V DC max. 0.25 A
Relay outputs:	2x relay port NO/NC
CAN ports	2x CAN open port (for CAN sensors or extension units)

Interfaces	
USB:	1x mini AB HS-USB 2.0 (for webcams)
Network:	1x 10/100 Mbit/s
SD card:	1x SD card slot
LTE/mobile communications:	1x LTE modem

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, 12 V alarm output status E1 and E2, error LED, 2x relay status 1 and 2

Features

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

Watchdog timer:
RMS 842+ has an integrated watchdog timer with full NTP synchronisation.

Sensor graphs
In the web interface, the sensor data can be displayed as a graph. Here, you can switch between displays in seconds, minutes, hours and days. The sensor data can be exported as XML or CSV.
The data can be retrieved in the interface or downloaded to Syslog or FTP or stored on an SD card.

Configurable logic
The web interface can be used to set up various logical links for warnings, alarms and notifications to avoid unplanned downtime.

Virtual sensors:
A large number of virtual elements can be created. These in turn can be used in the logical links.
E-mail, SNMP trap, SMS notifications (requires GSM or USB modem), timers, triggers, ping, IP cameras, groups, SNMP get

Webcams:
Up to four webcams can be integrated with the RMS 842+.
The display is then made available to them with a resolution of up to 640 x 480 px

Integrated thermal sensor:
The RMS 842+ system from SCHÄFER IT-Systems has an integrated temperature sensor.
This makes it possible to monitor the prevailing temperatures in the unit to ensure that the unit-specific ambient temperatures are adhered to.

Up to 128 sensors:
Up to 128 sensors can be monitored (requires extension unit 7808100)

Third-party sensor support:
A wide range of third-party sensors are supported.

Integrated web server:
The integrated web server can be used to display sensor data and implement all system settings without needing to install additional software.

Signalling via potential-free relays:
The RMS 842+ has two additional potential-free relays with changeover contact. This allows alarm messages to be output to building management systems (BMS) or uninterruptible power supplies (UPS), for example.

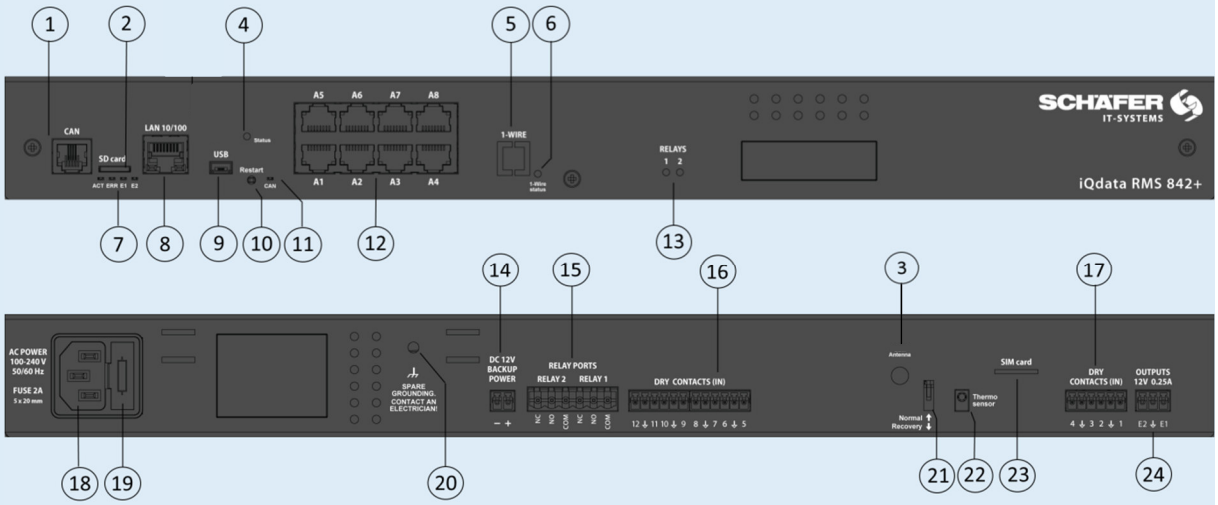
Messaging via mobile communications:
The RMS 842+ has an integrated LTE modem via which alarms can be sent as SMS.

Material and mounting	
Housing:	1 mm sheet steel
Colour:	RAL 9005
Mounting:	Free-standing unit or 19" (optional kit must be ordered separately)

Standards and guidelines	
2014/35/EU	Low Voltage Directive
2014/30/EU	EMC Directive 2014/30/EU of the European Parliament and of the Council of 26 February 2014 on the harmonisation of the laws of the Member States relating to electromagnetic compatibility (recast)
RoHS 2011/65/EU	The Directive on the restriction of the use of certain hazardous substances in electrical and electronic equipment
EN 60335-1	Household and similar electrical appliances - Safety - Part 1: General requirements (IEC 60335-1:2010, modified); EN 60335-1:2012
EN 62368-1:2014	Audio/video, information and communication technology equipment - Part 1: Safety requirements (IEC 62368-1:2014, modified)
EN 50581:2012	Technical documentation for the assessment of electrical and electronic products with respect to the restriction of hazardous substances.

Scope of supply	
1x RMS 842+ with LTE modem	1x connector plug 3.5 mm 3-pin
1x patch cable RJ45 (1 m)	1x connector plug 3.81 mm 3-pin
1x power supply cable IEC C13 230 V AC	1x Mini USB to USB cable
1x quick start guide	4x self-adhesive rubber buffers
1x LTE antenna	

Connections



1. **"CAN"**	Digital contact RJ12 for connecting CAN sensors and CAN extensions in a CAN bus with auto-sensing
2. **"SD"**	SD, microSD card connector with ejector, for data storage
3. **"LTE ANTENNA"**	Contact for LTE antenna of the integrated LTE modem
4. **"MODEM STATUS"**	Indicates the SIM card status. Flashing = status OK
5. **"1-WIRE"**	- Not available -
6. **"1-WIRE STATUS"**	- Not available -
7. LEDs: **"ACT"**	Indicates the unit status, E1, E2 reports active 12 V alarm output status
8. **"LAN 10/100"**	Ethernet 10/100 BASE-T port
9. **"USB"**	For connecting a USB camera or updating the unit
10. **"RESTART"**	Restarts the unit
11. LED: **"CAN"**	Indicates CAN bus status
"CAN" flashes slowly	No connection
"CAN" flashes quickly	Configuration running
"CAN" lights up continuously	Connected with CAN unit
12. **"A1…A8"**	8x RJ12 analogue and digital sensor inputs with auto-sensing
13. LEDs: **"RELAYS 1, 2"**	Indicates potential-free relay status
14. **"DC 12 V"**	Additional voltage output
15. **"RELAYS 1, 2"**	Potential-free relay outputs
16. **"DRY CONTACTS 5…12"**	Potential-free inputs
17. **"DRY CONTACTS 1…4"**	Potential-free inputs
18. **"POWER INPUT"**	Power supply 100–240 V 50/60 Hz IEC C14
19. **"FUSE"**	2 A 5x20 mm fine-wire fuse
20. ⏚	External earth connection M4 internal thread
21. **"DIP-SWITCH"**	"Normal" ↑ off = normal state / "Recovery" ↓ on = factory setting
22. **"THERMOSENSOR"**	Internal temperature sensor ± 1.0 °C
23. **"SIM"**	SIM card slot with ejector for LTE modem
24. **"OUTPUTS 12 V 0.25 A"**	2x 12 V DC max. 0.25 A alarm outputs