



Smart supervisor for rack Master wireless with LTE modem version

- Up to 7 Inputs for temperature probes
- 4 Inputs for smoke sensors, flooding and door opening
- Modem LTE 4G
- RS485 Modbus Master manages up to 8 power meters

The **KET-RKM-100** is a **rack** monitoring system designed to monitor all basic rack parameters. The system allows monitoring of rack internal temperatures and PDU consumption. It also has **dedicated inputs** for smoke, flood and door opening sensors.

Thanks to X-Monitor technology, each rack can be monitored by a slave unit connected to a single master unit via radio and/or RS485.

The master unit can be configured to send data to external platforms using internal LTE 4G, GPRS, Narrow Band modems or via Ethernet.

Equipped with dual 100-240 VAC power supply and **supercapacitor** to operate even in the absence of power for the time necessary to send the acoustic signal to the alarm. Internal Flash memory 256 Kb, F-RAM and RTC for data protection.

It is also equipped with an **infrared door opening sensor** and temperature and relative humidity sensors to check the status of the device itself.

TECHNICAL FEATURES	
CASE	Dimensions: 434 x 40 x 203 mm (W x H x D) Mounting: Inside racks 19" Material: Case, 19", ABS, 1U, Black
POWER SUPPLY	Supply Voltage: Dual 100 ÷ 240 VAC Consumption: Connectors types: Type C14 input connector, panel protection fuses on the back of the case and removable connectors on the PCB
UPS	Battery Type: Supercapacitor to allow the sending of the alarm for power interruption Approximate Battery Life:
DATALOGGER FUNCTION	Memory Type: Flash 256 KB Data Storage Capacity: F-RAM and RTC
PROCESSORS	Processor Type: System CPU Micro Atmel ATSAMD21J17A-MU; Radio CPU Micro Atmel XMEGA256K / XMEGA384K
RS485 INTERFACE	Supported Protocols: Master ModBus conveys up to 8 power meters Communication Rate: Isolation: Connectors types: 1 RJ12 (6P6C)
ETHERNET INTERFACE	Supported Protocols: 10/100/1000 Base-T Communication Rate: Connectors types: RJ45
DIGITAL INPUTS	Channels: Digital Inputs: 4 inputs with automatic presence and sensor type detection, 12 VDC power supply, 4P4C modular connectors
ANALOG INPUTS	Channels: Analog Inputs: Up to 7 inputs for NTC 10K type temperature probes with RJ45 connectors Precision: Resolution:
RADIO MODULE	Supported Protocols: X-Monitor Protocol (X-MP) / IEEE 802.15.4 / ZigBee™ Pro 2.0 Radio Frequency: 2.4 GHz ISM Band Output Power: +3 ÷ +20 dBm Sensitivity: -104 dBm Antenna Type: Max Distance (Free Air): Over 1000 m
MODEM	Supported Protocols: LTE 4G Radio Frequency: Antenna Type: SIM Type: Mini-SIM
TEMPERATURE SENSOR	Measure Range: -40 – +123.8°C Precision: ±0.4 ÷ 25 °C Repeatability: ±0.1 °C Resolution: ±0.01 °C
HUMIDITY SENSOR	Measure Range: 0 ÷ 100%RH Precision: ±3%RH from 20 to 80%RH Repeatability: ±0.1%RH Resolution: ±0.03%RH Hysteresis: ±1%RH Long Period Stability: <0.5%RH/year

APPLICATIONS

Data Centres and racks

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