



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

KET-RKM-100

Applications

The **KET-RKM-100** is a **rack** monitoring system designed to monitor all basic rack parameters.

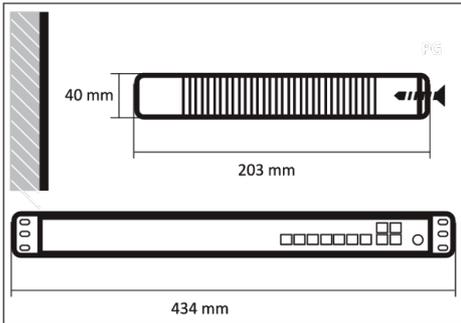
The system allows monitoring of rack internal temperatures and PDU consumption. It also has **dedicated inputs** for smoke, flood and door opening sensors.

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 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
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 Connectors types: 1 RJ12 (6P6C)
Ethernet interface	Supported Protocols: 10/100/1000 Base-T Connectors types: RJ45
Digital inputs	Digital Inputs: 4 inputs with automatic presence and sensor type detection, 12 VDC power supply, 4P4C modular connectors
Analog inputs	Analog Inputs: Up to 7 inputs for NTC 10K type temperature probes with RJ45 connectors
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 Max Distance (Free Air): Over 1000 m
Modem	Supported Protocols: LTE 4G 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

Technical Features

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