



## 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.

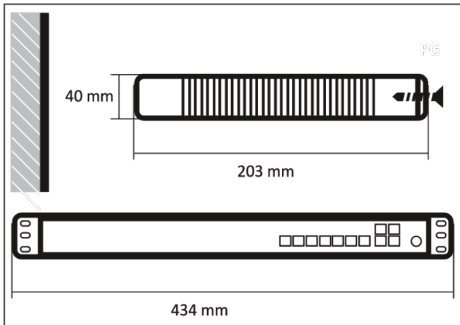
The system allows monitoring of rack internal temperatures and PDU consumption. It also has **dedicated inputs** for smoke, flood and door opening sensors.

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	<b>Dimensions:</b> 434 x 40 x 203 mm (W x H x D) <b>Mounting:</b> Inside racks 19" <b>Material:</b> Case, 19", ABS, 1U, Black
Power supply	<b>Supply Voltage:</b> Dual 100 ÷ 240 VAC <b>Connectors types:</b> Type C14 input connector, panel protection fuses on the back of the case and removable connectors on the PCB
Ups	<b>Battery Type:</b> Supercapacitor to allow the sending of the alarm for power interruption
Datalogger function	<b>Memory Type:</b> Flash 256 KB <b>Data Storage Capacity:</b> F-RAM and RTC
Processors	<b>Processor Type:</b> System CPU Micro Atmel ATSAMD21J17A-MU; Radio CPU Micro Atmel XMEGA256K / XMEGA384K
Rs485 interface	<b>Supported Protocols:</b> Master ModBus conveys up to 8 power meters <b>Connectors types:</b> 1 RJ12 (6P6C)
Ethernet interface	<b>Supported Protocols:</b> 10/100/1000 Base-T <b>Connectors types:</b> RJ45
Digital inputs	<b>Digital Inputs:</b> 4 inputs with automatic presence and sensor type detection, 12 VDC power supply, 4P4C modular connectors
Analog inputs	<b>Analog Inputs:</b> Up to 7 inputs for NTC 10K type temperature probes with RJ45 connectors
Radio module	<b>Supported Protocols:</b> X-Monitor Protocol (X-MP) / IEEE 802.15.4 / ZigBee™ Pro 2.0 <b>Radio Frequency:</b> 2.4 GHz ISM Band <b>Output Power:</b> +3 ÷ +20 dBm <b>Sensitivity:</b> -104 dBm <b>Max Distance (Free Air):</b> Over 1000 m
Modem	<b>Supported Protocols:</b> LTE 4G <b>SIM Type:</b> Mini-SIM
Temperature sensor	<b>Measure Range:</b> -40 – +123.8°C <b>Precision:</b> ±0.4 ÷ 25 °C <b>Repeatability:</b> ±0.1 °C <b>Resolution:</b> ±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