kerberos

RS485 ModBUS | X- MONITOR | LTE 4G | UPS | 100-240V



# KET-RKM-100

## 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**

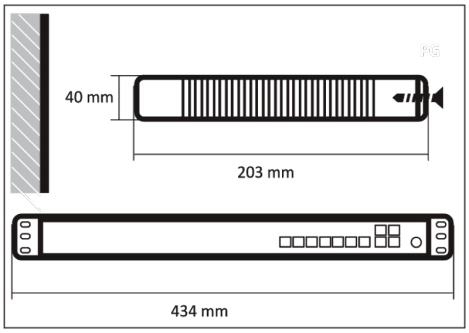
The **KET-RKM-100** is a **rack** monitoring system designed to monitor all basic rack parameters.
The system allows monitoring of rack internal temperatures and PDU consumption. It also has **dedicated inputs** for smoke, flood and door opening sensors.
Thanks to X-Monitor technology, each rack can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

### Applications

Data center

### Accessories

- KET-RKE-032
- KET-RKE-063
- KET-RKE-063.P32S32
- KET-RKT-100
- KET-RKT-104
- KET-RKA-100
- KET-RKP-100
- KET-RKF-100
- KET-RKY-100




### Technical Features

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|---|---|
| Case | **Dimensions**: 434 x 40 x 203 mm (W x H x D)<br>**Mounting**: Inside racks 19"<br>**Material**: Case, 19 ", ABS, 1U, Black |
| Power supply | **Supply Voltage**: Dual 100 ÷ 240 VAC<br>**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<br>**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<br>**Connectors types**: 1 RJ12 (6P6C) |
| Ethernet interface | **Supported Protocols**: 10/100/1000 Base-T<br>**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<br>**Radio Frequency**: 2.4 GHz ISM Band<br>**Output Power**: +3 ÷ +20 dBm<br>**Sensitivity**: -104 dBm<br>**Max Distance (Free Air)**: Over 1000 m |
| Modem | **Supported Protocols**: LTE 4G<br>**SIM Type**: Mini-SIM |
| Temperature sensor | **Measure Range**: -40 – +123.8°C<br>**Precision**: ±0.4 ÷ 25 °C<br>**Repeatability**: ±0.1 °C<br>**Resolution**: ±0.01 °C |

| Technical Features | |
|---|---|
| Humidity sensor | **Measure Range**: 0 ÷ 100%RH<br>**Precision**: ±3%RH from 20 to 80%RH<br>**Repeatability**: ±0.1%RH<br>**Resolution**: ±0.03%RH<br>**Hysteresis**: ±1%RH<br>**Long Period Stability**: <0.5%RH/year |