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**

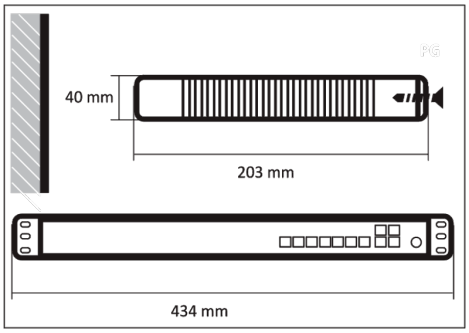
The **KET-RKM-100** is a **rack** monitoring system designed to monitor all basic rack parameters.
The system allows monitoring of rack internal temperatures and PDU consumption. It also has **dedicated inputs** for smoke, flood and door opening sensors.
Thanks to X-Monitor technology, each rack can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

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