

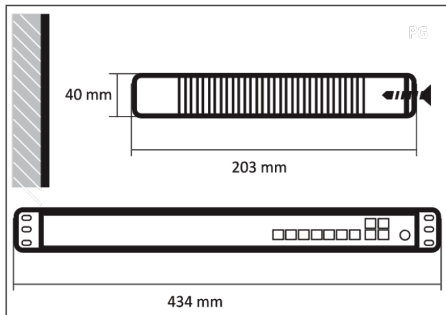


Smart supervisor for rack Slave Wireless and ModBUS version

- Up to 7 Inputs for temperature probes
- 4 Inputs for smoke sensors, flooding and door opening
- RS485 ModBUS Slave with connection to an internal or external master
- Dual Power supply and supercapacitor

KET-RKS-100

Applications



The **KET-RKS-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 that communicates to the Master via wireless mesh connection or via RS485 serial port. 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

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|---------------------|---|
| 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: ModBus Slave connection to an internal or external master Connectors types: 2 RJ12 (6P6C) |
| 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 |
| 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 |