



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

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.

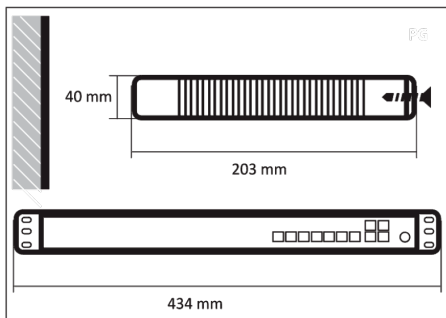
Thanks to X-Monitor technology, each rack can be monitored by a Slave unit that communicates to the Master via wireless mesh connection or via RS485 serial port. Equipped with dual 100-240 VAC power supply and **supercapacitor** to operate even in the absence of power for the time necessary to send the 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.

KET-RKS-100

Applications

Data centres and racks



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 Consumption: 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 Approximate battery life:
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 Communication rate: Isolation: Connectors types: 2 rj12 (6p6c)
Digital inputs	Channels: Digital inputs: 4 inputs with automatic presence and sensor type detection, 12 vdc power supply, 4p4c modular connectors
Analog inputs	Channels: Analog inputs: up to 7 inputs for ntc 10k type temperature probes with rj45 connectors Precision: Resolution:
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 Antenna type: 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

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