



# 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.

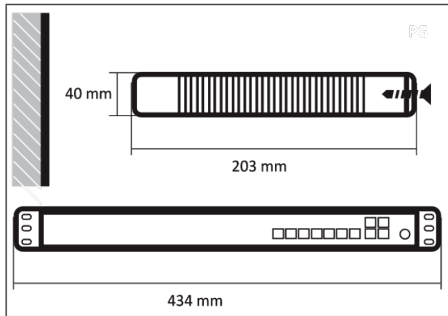
Internal Flash memory 256 Kb, F-RAM and RTC for data protection.

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	<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>Consumption:</b> <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 <b>Approximate Battery Life:</b>
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> ModBus Slave connection to an internal or external master <b>Communication Rate:</b> <b>Isolation:</b> <b>Connectors types:</b> 2 RJ12 (6P6C)
Digital inputs	<b>Channels:</b> <b>Digital Inputs:</b> 4 inputs with automatic presence and sensor type detection, 12 VDC power supply, 4P4C modular connectors
Analog inputs	<b>Channels:</b> <b>Analog Inputs:</b> Up to 7 inputs for NTC 10K type temperature probes with RJ45 connectors <b>Precision:</b> <b>Resolution:</b>
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>Antenna Type:</b> <b>Max Distance (Free Air):</b> Over 1000 m
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
Humidity sensor	<b>Measure Range:</b> 0 ÷ 100%RH <b>Precision:</b> ±3%RH from 20 to 80%RH <b>Repeatability:</b> ±0.1%RH <b>Resolution:</b> ±0.03%RH <b>Hysteresis:</b> ±1%RH <b>Long Period Stability:</b> <0.5%RH/year