

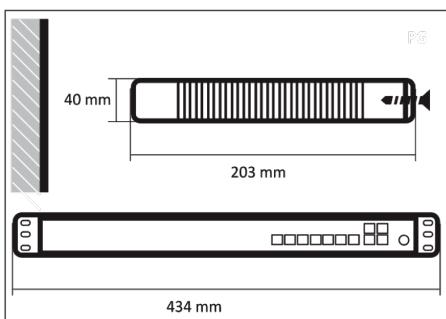


## Smart supervisor for rack Slave Wireless and ModBUS version

### KET-RKS-100

#### Applications

Data centres and racks



- 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.

#### 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

## Technical Features

## Humidity sensor

**Measure range:** 0 ÷ 100%rh  
**Precision:**  $\pm 3\%$ rh from 20 to 80%rh  
**Repeatability:**  $\pm 0.1\%$ rh  
**Resolution:**  $\pm 0.03\%$ rh  
**Hysteresis:**  $\pm 1\%$ rh  
**Long period stability:** <0.5%rh/year