kerberos



KET-THL-200.S

Wireless Temperature, Humidity and Light sensor for outdoor use

- **High-precision digital sensors**
- **High degree of protection**
- **Battery powered, lifetime > 5 years**
- **Internal memory**

Applications

- Building management system
- Data center
- Smart city
- Thermoregulation

Versius

KET-SLE-100

The KET-THL-200.S is a wireless sensor suitable for outdoor positioning thanks to the **high degree of protection** of the container and to the temperature and relative humidity sensors protected from atmospheric agents. It also integrates a **light sensor** for complete environmental monitoring.
The high sensitivity of the amplified sound module allows to reach distances of **over 600 m** in free air.
KET-THL-200.S comes with an internal memory, which allows you to store over 60,000 information, in case of malfunction of wireless network, retransmitting the data automatically as soon as possible.
The **LinkQuality feature** indicates the actual quality of radio reception to allow rapid positioning of the device.
When a signal arrives, the Diversity system selects the antenna with the highest gain thus increasing the radio sensitivity.
The battery life is greater than five years with ordinary alkaline batteries.

Technical Features

General specifications	**Protection Range**: IP65 **Operative Temperature**: -20 ÷ +70 °C
Case	**Dimensions**: 80 x 81 x 56 mm (W x H x D) **Mounting**: Wall mounting **Material**: UV resistant polycarbonate, Self-extinguishing: UL 94 V2-HB
Battery power supply	**Supply Voltage**: 2 x 1.5 V **Battery Type**: 2 type C, half torch **Approximate Battery Life**: > 5 years
Datalogger function	**Data Storage Capacity**: Retention of more than 60,000 data with date and hour even if there is no connection
Radio module	**Supported Protocols**: X-Monitor Protocol (X-MP) / IEEE 802.15.4 **Radio Frequency**: 2.4 GHz ISM Band **Output Power**: +3 ÷ +20 dBm **Sensitivity**: -101 dBm **Antenna Type**: 1 internal **Max Distance (Free Air)**: Over 600 m
Functionality	**Radio Signal Indicator**: Integrated (LinkQuality) **Output Power Adjustment**: From remotely **Firmware Upgrade**: Via radio
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
Light sensor	**Measure Range**: 10 ÷ 1000 Lux **Response Curve**: Similar to that of the human eye