



# Wireless Temperature, Humidity and Light sensor for outdoor use

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

## KET-THL-200.S

### Applications

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