



## Wireless temperature, relative humidity and light probe

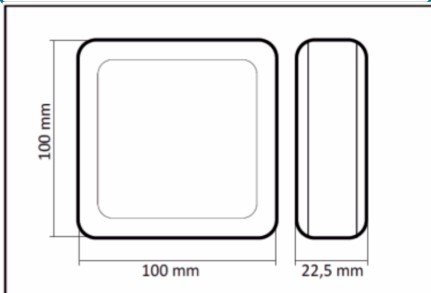
- Perfect integration with BMS / BEMS systems
- High precision digital sensors
- Zero consumption e-ink display
- Powered at 12 VDC or via USB

## KET-THL-305

### Versus

KET-TLP-105

KET-AIR-200



LE SPECIFICHE TECNICHE E LE IMMAGINI RIPORTATE IN QUESTA SCHEDA TECNICA SONO SOGGETTE A VARIAZIONI E AGGIORNAMENTI

The **KET-THL-305 environmental sensor** is designed for the accurate measurement of key microclimatic parameters essential for **environmental comfort** and **energy efficiency** in buildings. Through the precise detection of **temperature** and **relative humidity**, along with the dual measurement of **ambient light**, the device enables **optimal comfort regulation** and a consequent **reduction in energy consumption**.

The **KET-THL-305.DY version**, equipped with a **zero-power e-ink display**, provides users with detailed information on the level of **thermal comfort** present in the environment, ensuring a **clear and continuous reading** of the detected parameters with minimal impact on energy consumption.

The **KET-THL-305.TS version** introduces the functionality to **set the desired comfort level**, offering personalized control over environmental conditions.

Designed for easy integration into building management and energy management systems (**BMS / BEMS**), the environmental sensor provides a **simple user interface manageable remotely**, optimizing the monitoring and control of environments. Designed for professional use, it supports **remote or local firmware updates**, ensuring its constant efficiency and functionality over time. For applications in public environments, it offers a **keypad lock** and **limitation of active functions**, ensuring controlled and safe use.

### Technical Features

General specifications	<b>Protection Range:</b> IP40 <b>Operative Temperature:</b> -10 ÷ +60 °C <b>Storage Temperature:</b> -15 ÷ +60 °C <b>Relative Humidity:</b> MAX 80% not condensing
Case	<b>Dimensions:</b> 100 x 100 x 22.5 mm (W x H x D) <b>Mounting:</b> Wall mounting with supplied plate or placed on a surface <b>Material:</b> White ABS, also available in black
Power supply	<b>Supply Voltage:</b> 12 VDC or via USB <b>Connectors types:</b> Removable spring clamps
Datalogger function	<b>Memory Type:</b> Internal Flash (only for .DL version) <b>Data Storage Capacity:</b> Retention of more than 60,000 data
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 local keyboard and remotely <b>Firmware Upgrade:</b> Over The Air and via USB C connector <b>User menu:</b> Thermostat function with temperature summer / winter mode, comfort / saving / off mode, air speed setting, (only .TS version) <b>Support for public environment:</b> Anti-removal support, keyboard lock and active function limitation
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

#### Technical Features

Light sensor	<b>Number of sensors:</b> 2, on front and on top <b>Measure Range:</b> 10 ÷ 1000 Lux <b>Response Curve:</b> Similar to that of the human eye
Display	<b>Display Type:</b> zero consumption e-ink (only .DY and .TS versions) <b>Resolution:</b> 122 x 250 pixels <b>Contrast Ratio:</b> High contrast, high reflectance <b>Viewing Angle:</b> 160°