



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

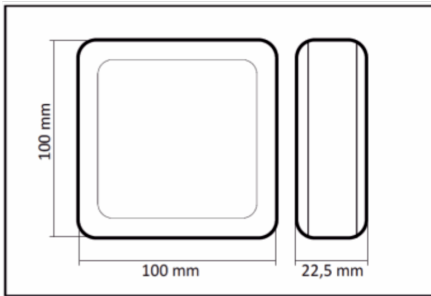
Versius

KET-TLP-105

KET-AIR-200

Accessories

KET-PSA-230.012.005.C



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

Technical Features

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