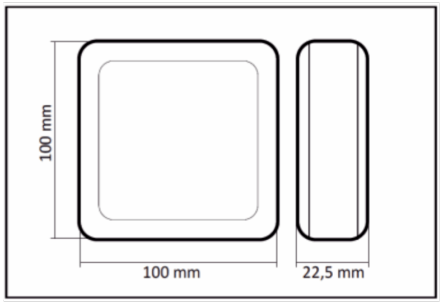
kerberos

KET-THL-305

Versius

KET-TLP-105

KET-AIR-200



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

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**

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 surafce **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°