kerberos



# KET-THL-305

## 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.

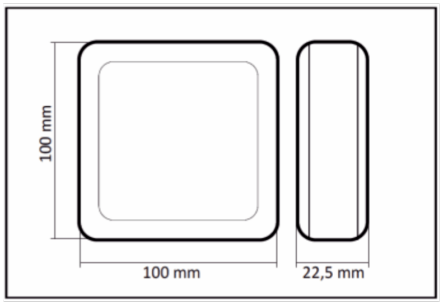
### Versius

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

### Technical Features

| | |
|---|---|
| General specifications | **Protection Range**: IP40<br>**Operative Temperature**: -10 ÷ +60 °C<br>**Storage Temperature**: -15 ÷ +60 °C<br>**Relative Humidity**: MAX 80% not condensing |
| Case | **Dimensions**: 100 x 100 x 22.5 mm (W x H x D)<br>**Mounting**: Wall mounting with supplied plate or placed on a surafce<br>**Material**: White ABS, also available in black |
| Power supply | **Supply Voltage**: 12 VDC or via USB<br>**Connectors types**: Removable spring clamps |
| Datalogger function | **Memory Type**: Internal Flash (only for .DL version)<br>**Data Storage Capacity**: Retention of more than 60,000 data |
| Radio module | **Supported Protocols**: X-Monitor Protocol (X-MP) IEEE 802.15.4<br>**Radio Frequency**: 2.4 GHz ISM Band<br>**Output Power**: +3 ÷ +20 dBm<br>**Sensitivity**: -101 dBm<br>**Antenna Type**: 1 internal<br>**Max Distance (Free Air)**: Over 600 m |
| Functionality | **Radio Signal Indicator**: Integrated (LinkQuality)<br>**Output Power Adjustment**: From local keyboard and remotely<br>**Firmware Upgrade**: Over The Air and via USB C connector<br>**User menu**: Thermostat function with temperature summer / winter mode, comfort / saving / off mode, air speed setting, (only .TS version)<br>**Support for public environment**: Anti-removal support, keyboard lock and active function limitation |
| Temperature sensor | **Measure Range**: -40 ÷ +123.8 °C<br>**Precision**: ±0.4 ÷ 25 °C<br>**Repeatability**: ±0.1 °C<br>**Resolution**: ±0.01 °C |
| Humidity sensor | **Measure Range**: 0 ÷ 100%RH<br>**Precision**: ±3%RH from 20 to 80%RH<br>**Repeatability**: ±0.1%RH<br>**Resolution**: ±0.03%RH<br>**Hysteresis**: ±1%RH<br>**Long Period Stability**: <0.5%RH/year |

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