

# Bluetooth Sensor

Datalogger-Temperature and Humidity  
Model: B-RHT1



## Key Benefits

### Long Battery Autonomy — Achieves a theoretical lifespan of 18 years

Designed for ultra-low-power operation to ensure long-term, maintenance-free use.

### IP65 Waterproof with POM-C Housing

Durable, industrial-grade enclosure offering strong environmental protection.

### Long Communication Range — Up to 500m in ideal open environment

In open-field line-of-sight (LoS) conditions, the Bluetooth link can reach several hundred meters in theory.

### Configurable Device Performance Settings

Flexible parameters for sampling rate, BLE advertising interval, and more.

### Specialized Configuration Software — Easy Setup, Control & Monitoring

Intuitive tool for adjusting device settings and monitoring real-time data.

### Over-the-Air (OTA) Firmware Updates

Update devices remotely without physical access.



## Technical Specifications

### Bluetooth & Sensor

#### Bluetooth

|                        |   |
|------------------------|---|
| Frequency              | 2.4GHz by Bluetooth Low Energy (BLE) 4.2  |
| Operating Range        | Up to 500m in ideal open environment  |
| Output Power           | Configurable -40dB ~ +4dB   |
| Sensitivity            | -96 dBm (1 Mbps)  |
| BLE Advertising Period | Default Mode: Configurable from 20ms to 10240ms<br>Alarm Mode: Configurable from 10ms to 180000ms |

#### Sensor

|                              |            |
|------------------------------|------------|
| Temperature Range            | -40 ~ 85°C |
| Temperature Resolution       | 0.01°C     |
| Temperature Accuracy         | ±0.4°C     |
| Relative Humidity Range      | 0 ~ 100%   |
| Relative Humidity Resolution | 1%         |
| Relative Humidity Accuracy   | ± 3%       |

### Battery Information

|                      |   |
|----------------------|---|
| Power supply         | 3VDC- Lithium battery   |
| Suppose Battery Life | Up to 18 years with specific operating data setting and ideal condition |

### Configure Software

|                              |   |
|------------------------------|---|
| SensiLink Configuration Tool | Sensors can be easily customized through a dedicated, user-friendly software tool. Users can adjust parameters like device name, Bluetooth Tx power, sensor sampling time and alarm mode, as well as monitor data in real time for better device management. Available in Windows and Android Platform. |
|------------------------------|---|

### Product Housing Specifications

|                             |   |
|-----------------------------|---|
| Weight                      | 45g   |
| Waterproofness              | IP68  |
| Dimensions                  | Base: Ø57mm Top: Ø40mm Thickness: 19mm        |
| Operating Temperature Range | -40°C ~ 85°C                                  |
| Material                    | Food-grade POM-C (Polyoxymethylene Copolymer) |



5.5 mm



## Technical Specifications

### Accessories

#### Device Holder

Provide various installation methods: when the sensor is mounted with the holder, it can be attached to a supporting surface using double-sided adhesive, secured with screws, or fastened with a nylon tie through the dedicated slot and hung on surfaces such as tubes.

