**EN**

# INSTRUCTION MANUAL

## Temperature and Humidity Sensor
### Art.No.: 99 190 59

### Model No.: io-TH-BLE

**Bluetooth**®

# MALMBERGS

Malmbergs Elektriska AB
PO Box 144, SE-692 23 Kumla, SWEDEN

www.malmbergs.com

## TECHNICAL SPECIFICATIONS

| | |
|---|---|
| Product type | Temperature and humidity sensor |
| Wireless connection | Bluetooth |
| Operating temp. | Ta: -20°C - +45°C |
| Dims (WxDxH) | 45x45x13 mm |
| Battery life | CR2450 3V DC (Included) |
| Measuring frequency | Can choose to report every 5/10/15/30 min |

**EMC Standard (RED)**
ETSI EN 301 489-1 V2.2.3(2019-11), ETSI EN 301 489-17 V3.1.1(2017-02), EN 55032:2015, EN 55035:2017

**Safety Standard (RED)**
EN 62368-1:2014+A11:2017, EN 60598-2-12:2013, EN 60598-1:2015 +A1:2018, EN 62471: 2008, EN 62493:2015, EN 62031: 2008+A1:2013+A2:2015, EN 61347-1:2015, EN 61347-2-13:2014+A1:2017

**RoHS Standard (RoHS)**
(EU)2015/863, 2011/65/EU

**Radio Equipment (RED)**
EN 300 328 V2.2.2

**Health Standard (RED)**
EN 50663:2017

**REACH Standard (RED)**
(EC) No 1907/2006

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## Control your Smart Home wherever you are



Device Sharing

APP — Anywhere

| 99 190 57 | 99 190 58 | 99 190 59 |
|---|---|---|
| Door sensor | PIR Sensor | T&H sensor |

Bluetooth® Gateway 99 190 42 (Example)

APP

| 99 190 57 | 99 190 58 | 99 190 59 |
|---|---|---|
| Door sensor | PIR Sensor | T&H sensor |

Apps — Router — Gateway 99 190 42 (Example)
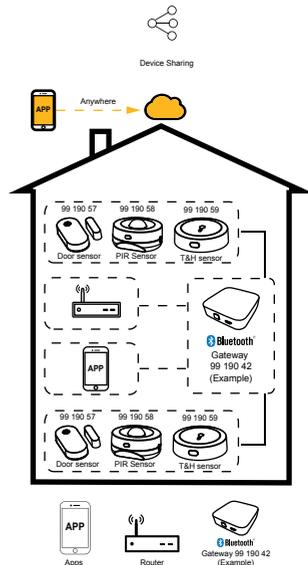
3

AF/BC-JA/YL-210305

## INSTALLATION
⚠ **Warnings:**

- This device does not support standalone application and it must work together with the Bluetooth gateway (Example 99 190 42 optional accessories) under the same WIFI network configuration.

- Indoor use only.

- Keep the device out of reach of children.

- Keep the device away from water, damp or hot environment.

- Do NOT exceed the recommended electrical ratings.

- Install the device away from strong signal sources such as microwave ovens, which may lead to signal interruption resulting in abnormal operation of the device.

- Obstruction by concrete wall or metallic materials may reduce the range of the device and should be avoided.

- Do NOT attempt to disassemble, repair or modify the device.

**Product size**



13 mm

Ø 45 mm
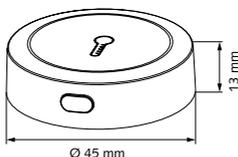
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## Wiring Instructions and Diagrams

The device can only be installed indoors. The correct installation should meet the following conditions:

1. Ensure that the product is within the range of the Bluetooth gateway network.

2. The device detects temperature and humidity in the environment in real time, and works in conjunction with other devices to implement smart home application.

3. The device shall be kept away from stove, refrigerator, air-conditioner or any other places that are sensitive to change the temperature or humidity of the environment and resulted to inaccurate reading recorded.



Bluetooth Gateway 99 190 42 (Example)

Temp./Humidity Sensor
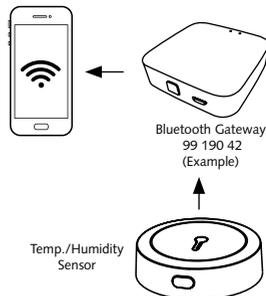
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# MALMBERGS

## APP USER MANUAL



iOS APP/Android APP

**1** Scan the QR code to download the MALMBERGS App. You can also search the keyword "MALMBERGS" at App Store or Google Play to download the App.



← Register

Region

Mobile number/e-mail address

Obtain verification code

**2** Register your account with your mobile number or e-mail address, wait a few minutes for verification code (by text message or e-mail) and enter it where required to set a password, and "Create Family". If you already have an account, please log in directly with your mobile number or e-mail address and password to open the App.

Indicator light (Red): Working mode



Reset button for Bluetooth connection

Bluetooth Gateway
99 190 42
(Example)
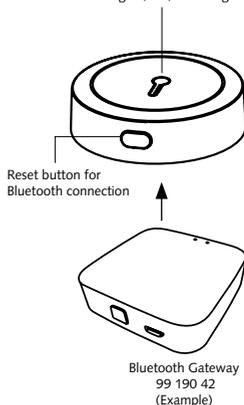
**3** Make sure the Bluetooth gateway is added and installed to the WIFI network. Ensure that the product is within the range of the Bluetooth gateway network.

① ② ③
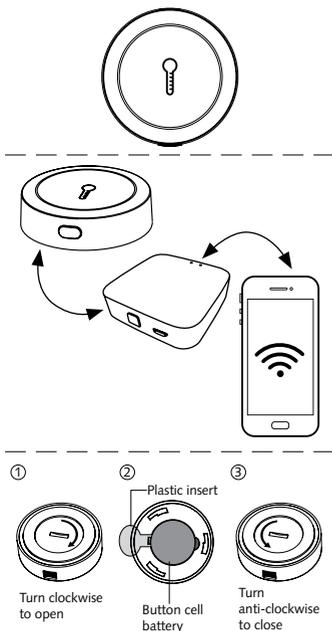
Plastic insert



Turn clockwise to open

Button cell battery

Turn anti-clockwise to close

**Important:**

Remove plastic insert before installation.

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< Add manually   Search Device

Electrical & Lighting

Bluetooth Device   WIFI Devices

Security & Safety

Home Automation

Gateway

Others

**4** Click "+" (Add sub-device) to select the suitable product category and follow the on-screen instruction for pairing.



Temperature and Humidity Sensor

Done

All Devices   Living Room   Master Bedro...

Temperature and Humidity Sensor

**5** When pairing is done, the device will be shown in the App.

⚠ **Note: Contents, icons and symbols shown in the mobile app may be subject to change without prior notice due to continuous upgrading and improvement.**

## FAQ

**Q1: What should I do if I can't configure the device?**
a. Please check whether the device is powered on.
b. Make sure your mobile and the device are in the same 2.4GHz WIFI network.
c. Please check if the WIFI signal is strong enough.
d. Make sure the password entered in the App is correct.
e. Make sure the wiring is correct.

**Q2: What happens if the WIFI goes off?**
You will not be able to control your device until the WIFI resumes normal.

**Q3: What should I do if I change the WIFI network or change the password?**
You can connect the module to the WIFI network according to the App User Manual.

**Q4: How do I reset the device?**
Press and hold the reset button until the red indicator light is flashing rapidly.

**Q5: Other technical problems?**
Please contact our technical support by e-mail: smarthome@malmbergs.com.

## SYSTEM REQUIREMENTS

- WIFI ® Router
- 99 190 42 Bluetooth gateway (Example)
- iPhone (iOS 9.0 or higher)
- Android 5.0 or higher

## DECLARATION OF CONFORMITY

We hereby certify that the device satisfies the provisions for CE markings in accordance with the EU directives (EMC Directive 2014/53/EU, RE Directive 2014/53/EU, RoHS Directive 2011/65/EU, (EU) 2015/863, REACH (EC) No 1907/2006) as described in this manual.

For and on behalf of:



Malmbergs Elektriska AB, Sweden.
Mr. Anders Folke / Product Manager
Date: 05/03/2021



CE RoHS

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