RAPTORTRON · USER MANUAL · SMART SENSOR

SE

Installation, connection and safety instructions for the SE temperature and humidity sensor that connects to the IR-REC or IR-W infrared controller.



User manual · English edition

01 Product overview



SE environment sensor.

Environment sensor that measures temperature & humidity in real time, connected through the IR-REC/IR-W infrared controller.

ITEM	DETAIL
Model	SE
Category	Smart sensor

02 Features

1. Must be connected directly to the IR-REC or IR-W infrared controller through the built-in Micro USB port.
2. Works as an environment monitoring device, measuring and storing the room temperature and humidity history in real time in the Raptortron app.
3. Integrates into the Raptortron Mesh smart home ecosystem, so that environmental data can be used as automation trigger conditions.
4. Supports smart air-conditioner automation, adjusting the operating mode and set temperature automatically in real time as the environment changes.

03 Technical specifications

01 Design & dimensions

SPECIFICATION	VALUE
Housing colour	White
Housing material	Flame-retardant PC + ABS plastic
Dimensions	26mm x 10mm x 7mm

02 Sensing & measurement

SPECIFICATION	VALUE
Sensor type	Digital temperature and humidity sensor
Function	Measures and transmits indoor temperature and humidity data in real time
Temperature range	-40 to 125°C, accuracy ±0.5°C
Humidity range	1–100% RH, accuracy ±1.5% RH

03 Power & load

SPECIFICATION	VALUE
Input voltage	5VDC, 100mA

04 Connectivity

SPECIFICATION	VALUE
Compatible host devices	IR-REC, IR-W
Connection port	Micro USB
Wireless communication	Raptortron Mesh, via the host infrared controller

04 Installation guide

In the box

- Raptortron sensor
- Battery as per the product configuration
- 3M adhesive pad
- Wall screws (if needed)
- Quick guide & warranty card

Installation steps

1. **Insert the battery.** Open the sensor cover and insert the battery with the correct polarity (+/-). The LED flashes once to confirm that power is supplied.
2. **Choose the location.** Place the sensor in a position that suits the detection range of the product (see Technical specifications for details).
3. **Clean the surface.** Wipe the mounting spot clean and dry with alcohol or a damp cloth; let it dry completely before sticking the sensor on.
4. **Fix the sensor.** Peel off the protective film of the 3M tape and press the sensor firmly into place for 30 seconds. If a more secure fixing is needed, use the supplied wall screws.
5. **Test operation.** Trigger an event (opening/closing the door, movement, etc.) to confirm that the sensor responds with its LED.

05 Connection guide

Preparation

- Raptortron smart switch
- 1 central hub with an Internet connection
- Raptortron app already connected to the central controller (make sure the phone and the central controller are on the same Internet network)

Download the Raptortron app for Android or iOS.

In the Raptortron app: auto learn

1. **Tap.** Open the Raptortron app, tap the "Menu" icon at the top of the screen, then select "Devices".
2. **Tap.** Tap the "Auto learn" icon.
3. **Tap.** When the "Auto learn" dialog appears, tick the "I have understood and agree" box, then tap **"OK"** to confirm.
4. The system starts a 60-second countdown to scan automatically and complete the device connection.

In the Raptortron app: manual learn

1. Open the "Menu" in the app, then go to "Devices".
2. **Press and hold.** Press and hold the icon of the device that you want to re-learn or replace.
3. In the list of options that appears, select "Manual learn".
4. **Tap.** When the "Manual learn" dialog appears, tap the "Learn" button. The dialog shows the Device code and the Serial number of the device.
5. The app counts down 60 seconds to finish synchronising and remembering the new device.

Teaching the device ID to the central controller

Do this on the device while the app is counting down.

1. Plug the device into the IR CIR infrared device.
2. **Press.** Press **button 1** to teach the ID. Make sure the MCE is in ID-teaching mode.

Result

- **If successful:** the device exits automatically once the ID is taught.
- **If it fails:** the red light keeps blinking. To try again, press the button again, or press and hold the button until the light stops blinking to exit.

Important

- Auto learn fails if the number of devices exceeds the capacity limit of the central controller.
- In that case, see the Technical specifications of the central controller for the number of devices allowed, or switch to the manual learn method.

06 Safety notes

! Use only a power supply that matches the technical specifications in this document. Using the wrong power supply can damage the device and be dangerous.

! Do not open or repair the device while it is powered. All electrical wiring must be done by a qualified electrician.

! Keep the device in a dry place, away from direct water splashes (except models explicitly rated as water-resistant, IP xx).

! The product is covered by the official Raptortron warranty policy. Please keep your purchase invoice for the best support.

English edition translated in full from the manufacturer's original manual. Specifications are subject to change; current data: https://raptortron.com/product-se.html. Online version: https://raptortron.com/manuals/se/