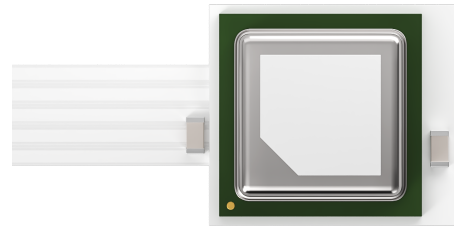


# CO2 Sensor

TapHome CO2 sensor with hidden installation. Range 400–5000 ppm, photoacoustic technology. EXT terminal, no bulky boxes on the wall.



## Quick Facts

|                       |                |
|-----------------------|----------------|
| Dimensions            | 33 × 33 × 9 mm |
| Operating temperature | 0 ... 50 °C    |
| IP rating             | IP20           |

The only air quality sensor on the market with hidden installation – no bulky plastic boxes on the wall! Connection via the EXT terminal of bus modules (2UI / 6UI / 6UI6OC / 4UI 2DO) allows installation along long cable lengths without voltage loss.

|            |  |
|------------|--|
| Order Code | EXT-CO2-2.1  |
| EAN        | <br>8586022931017 |

# Technical Specifications

## ELECTRICAL

|              |            |
|--------------|------------|
| Power supply | 3.3 VDC    |
| Connection   | UART / I2C |

## MEASUREMENT

|                                   |                     |
|-----------------------------------|---------------------|
| CO <sub>2</sub> measurement range | 400–5000 ppm        |
| CO <sub>2</sub> accuracy          | ±50 ppm ±3%         |
| Technology                        | Photoacoustic (PAS) |
| Response time                     | ~90 s               |

## 🔧 Installation Steps

### 1. Power Down the System

2. Before inserting the sensor, make sure the TapHome system is completely shut down and not powered. This prevents damage to the sensor.

### 3. Choose the EXT Terminal

4. Insert the CO<sub>2</sub> sensor into the EXT terminal on a **2UI, 6UI, 6UI / 60C, or 4UI / 2DO module**. These modules support digital communication over a bus line.

### 5. Use an Installation Box

6. The sensor is designed for hidden installation. Place it inside an installation box (e.g., behind a wall socket).

### 7. Ensure Air Circulation

8. The sensing part of the sensor must be directly exposed to circulating air. You can use connectors like **RJ45 or HDMI sockets** to allow airflow.

## 🔧 Sensor Specs

- **Detection Range:** 400–5000 ppm CO<sub>2</sub>
- **Technology:** Photoacoustic
- **Accuracy:** ±50 ppm ±3% of reading
- **Response Time:** ~90 seconds
- **Operating Conditions:** 0–50°C, 5–85% RH



Product page

<https://hardware.taphome.com/co2-sensor/>

