

## 1 1 Product description

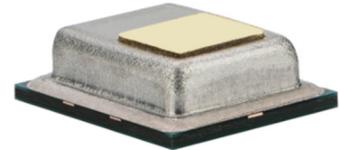
## 2 2 Related material

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### 1 Product description

#### **STCC4 CO<sub>2</sub> sensor with unmatched form factor for indoor air quality applications**

STCC4 offers one of the smallest form factors on the market for direct measurement of CO<sub>2</sub>, unlocking new applications previously limited by size and cost constraints. Designed for seamless integration into compact electronic devices, the sensor is a groundbreaking newcomer in the CO<sub>2</sub> sensor market.



Utilizing the latest technological advancements in thermal conductivity sensing, the fully factory calibrated STCC4 provides the accuracy needed for indoor air quality applications at a low current consumption. Both accurate signal compensation and monitoring of relevant indoor environmental parameters are achieved when STCC4 is combined with our industry-leading temperature and humidity sensors. Optimized for high volume assembly through its SMD design and tape & reel packaging, it is suitable for a wide range of applications, including indoor air quality monitors, smart thermostats, air conditioners and much more.

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#### **Features:**

- Thermal conductivity sensing technology RH/T, PM (1, 2.5, 4, 10), VOC and NO<sub>x</sub>, CO<sub>2</sub> outputs
- Small footprint of 4 × 3 × 1.2 mm<sup>3</sup>
- Current consumption of 950μA
- SMD soldering, tape & reel packaging
- Digital I2C interface

#### **Benefits:**

- Direct measurement of CO<sub>2</sub> concentration
- Facilitates space-efficient design-in
- Enables low power applications
- High reliability
- Straight-forward design-in
- Simple sensor communication

#### **Applications:**

- Smart speakers
  - Smart thermostats
  - Air conditioners
  - Indoor air quality monitors
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## **SEK-STCC4 Evaluation kit for CO2 sensor STCC4**

The SEK-STCC4, with an integrated STCC4 on a development board, enables fast and flexible testing for various applications.

### **Includes:**

1x STCC4 development board

1x adapter cable

1x jumper wire set

1x SEK-SensorBridge required

## 2 Related material

- Product launch package: <https://partners.sensirion.com/document/139#/co2/stcc4-1>
- STCC4 product page: [STCC4 - CO<sub>2</sub> sensor with unmatched form factor for indoor air quality applications](#)
- SEK-STCC4 product page: [sensirion.com/products/catalog/SEK-STCC4](https://sensirion.com/products/catalog/SEK-STCC4)
- Datasheet: <https://sensirion.com/resource/datasheet/STCC4>
- REACH and RoHS declaration: [https://sensirion.com/resource/certificate/reach\\_rohs\\_stcc4](https://sensirion.com/resource/certificate/reach_rohs_stcc4)
- One-pager smart thermostats: [Onepagers - PARTNERS @ Sensirion](#)
- Carbon Dioxide product flyer: <https://sensirion.com/resource/flyer-co2>
- IAQ brochure: <https://sensirion.com/resource/flyer/iaq/brochure>
- Pictures (no Login required): [https://sensirion.com/resource/certificate/reach\\_rohs\\_stcc4](https://sensirion.com/resource/certificate/reach_rohs_stcc4)
  - STCC4: <https://brand.sensirion.com/share/ucWKwf2YkpArRScXeIQJ>
  - SEK-STCC4: <https://brand.sensirion.com/share/JQGYTLsjCFXcsDHdFgZr>