CO_2 Sensors, SCD40 / SCD41

SCD40 and SCD41

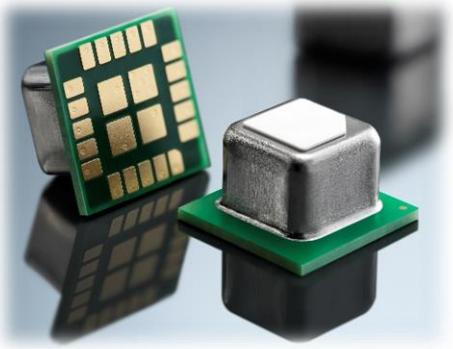
Whether in building automation, CO_2 traffic lights or climate control. The two CO2 sensors SCD40 and SCD41 set new standards in miniature format.

With dimensions of only 10.1 x 10.1 x 6.5 mm³, they are the world's smallest selective CO2 sensors. Smaller than a sugar cube, they can be easily integrated into compact applications.

The sensors can be reflow soldered and can therefore be processed quickly and conveniently using assembly systems. This saves time and money in production.

With its accuracy of ± 50 ppm, the SCD40 is ideally suited for CO_2 traffic lights. The SCD41 has an accuracy of ± 40 ppm and offers an additional low-power mode. It is the perfect component for high-quality ventilation systems and battery-operated devices.

Key Feature:



- Size: 10,1 x 10,1 x 6,5 mm³
- Assembly type: SMD
- Interface: I²C
- Supply voltage: 2,4 V…5,5 V
- Temperature range: -10…60 °C
- Measuring range: 0…40.000 ppm
- Accuracy: SCD40: ±(50 ppm +5 % of the measured value) @400 ppm…2.000 ppm
  SCD41: ±(40 ppm +5 % of the measured value) @400 ppm…5.000 ppm
- Power consumption: 12 mA (meas. rate = 5 s)
  2,5 mA (meas. rate = 30 s)
  0,4 mA (meas. rate = 5 min) [SCD41 only]

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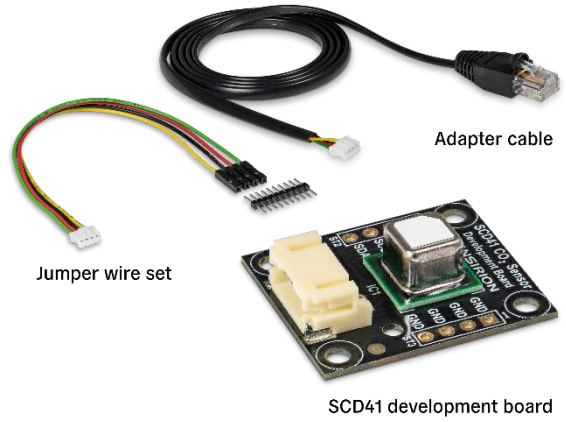
FIRST CLASS PREMIUM SUPPORT
GLYN High-Tech Distribution

CO_2 Sensors, SCD40 / SCD41

Get started now with the Sensirion Starter Kits

With the **SEK-SCD41 sensor** in combination with the **SEK-SensorBridge** you have a complete plug-and-play solution. With the associated viewer software, called **Control Center**, you can display and record the measured values of the sensors directly on your PC.

SEK-SCD41-Sensor	SEK-SensorBridge
	

You can also connect the **SEK-SCD41 sensor** to an Arduino or Raspberry Pi using the jumper cables wich are provided. The associated software is available free of charge directly from Sensiron.

As a third option, you can solder the **SCD41 development board** with the enclosed pin headers to your own application and test the performance of the sensor.

Order numbers:

Part number	Description
SCD40-D-R1	CO_2 Sensor, Standard accuracy, 60 pcs / reel
SCD40-D-R2	CO_2 Sensor, Standard accuracy, 600 pcs / reel
SCD41-D-R1	CO_2 Sensor, high accuracy, Low-Power Mode, 60 pcs / reel
SCD41-D-R2	CO_2 Sensor, high accuracy, Low-Power Mode, 600 pcs / reel
SEK-SCD41-Sensor	SCD41 Evaluation Kit
SEK-SensorBridge	Eval-Kit Toolbox (SensorBridge)

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