

TVOC/eCO₂ Gas Sensor Unit (SGP30)



Description

TVOC/eCO₂ mini Unit is a digital multi-pixel gas sensor unit with integrated SGP30. It mainly measures various VOC (volatile organic compounds) and H₂ in the air. It can be programmed to detect TVOC (total volatile organic compounds) and eCO₂ (equivalent carbon dioxide reading) Concentration measurement. Typical measurement accuracy is 15% within the measurement range, the SGP30 reading is internally calibrated and output, which can maintain long-term stability. SGP30 uses I2C protocol communication with on-chip humidity compensation function, which can be turned on through an external humidity sensor. If you need to obtain accurate results, you need to

calibrate according to a known measurement source. SGP30 has a built-in calibration function. In addition, eCO₂ is calculated based on the concentration of H₂ and cannot completely replace "true" CO₂ sensors for laboratory use.

Product Features

- TVOC/eCO₂ concentration detection
- I²C communication(0X58)
- Outstanding long-term stability
- Humidity Compensation
- 2x LEGO™ Hole
- HY2.0 4P interface

Include

- 1x TVOC/eCO₂ Mini Unit
- 1x HY2.0 Cable(5CM)

Applications

- Air quality monitoring
- eCO₂ concentration

Specification

Specification	Parameter
Measurement range	Ethanol : 0-1000ppm, H ₂ : 0-1000ppm, TVOC : 0-60000 ppb, eCO ₂ : 400-60000 ppm
TVOC/eCO ₂ Sampling rate	1Hz
TVOC/eCO ₂ Resolution	TVOC : 1/6/32bbp, eCO ₂ : 1/3/9/31ppm
Protocol	I ² C:
Net Weight	4g
Gross Weight	8g
Product Size	24*24*13mm
Package Size	35*36*18mm
Case material	Plastic(PC)

