

## S-VOC

VOC sensor with digital and analog outputs



Accurate measurement of VOC concentration and odours

Long-term stability and performance

MOS\* technology



Equivalence of CO<sub>2</sub> concentration

2 outputs for easy connection: analog (0-10V) and digital (PWM)



Can be adapted to different markets and applications



Compact design, simple to install, ready to use



No maintenance

\* MOS (Metal Oxide Semiconductor) technology: change of the electrical characteristics of the sensing layer depending on the nature and the concentration of the VOC which are detected.



### An intelligent device for accurate assessment of indoor air quality

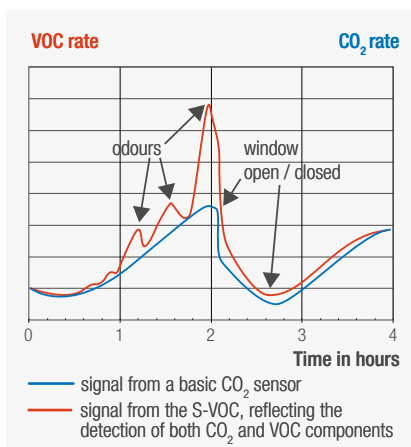
Indoor environments contain various gases and microscopic particles that can impact human health. The S-VOC is designed to accurately and reliably determine the level of volatile organic compounds (VOC), typically associated with cigarette smoke, cooking smells, and other pollutants:

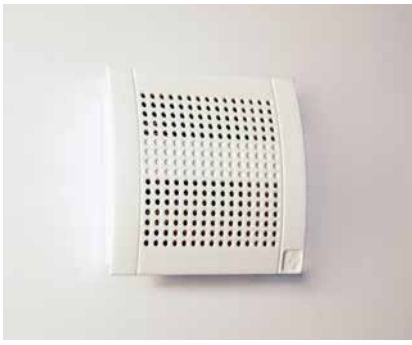
- CO, CH<sub>4</sub>, LPG
- Ketones
- Organic acids
- Amines
- Aliphatic hydrocarbons
- Aromatic hydrocarbons

The S-VOC also evaluates the concentration of carbon dioxide, an essential criterion in Indoor Air Quality measurement (see graph below). In any environment requiring demand controlled ventilation, such as commercial facilities, offices, classrooms, and private homes (kitchen, bathroom, etc.), the S-VOC now makes it possible to assess more than just the CO<sub>2</sub> criterion of IAQ, and to come closer to perceived air quality. Thanks to its compact design, the SVOC is simple to fit into your installation and your room.

### A pertinent and extended measurement of indoor air quality

Using MOS\* technology, the S-VOC measures the concentration of VOC and odours in real time and evaluates the CO<sub>2</sub> level of the room. Its output signal reports values from 0 to 2 000 on a "CO<sub>2</sub> equivalent ppm" IAQ scale. This signal is available simultaneously in two forms: analog (0-10 V) and digital (PWM).





## S-VOC VOC sensor with digital and analog outputs

### Standard code

Measurement principle

Working range

Measurement reporting interval

Supply voltage

Average power consumption

Max. peak current

Enclosure protection

Storage conditions

Working conditions

### PWM digital output

Output data

Voltage

Frequency

### Output 0-10 V (analog)

Output data

Voltage

Required impedance

### Characteristics

Weight

Colour

Material

### S-VOC

CAP1160

Micro-machined metal oxide semiconductor (MOS) technology

CO<sub>2</sub> eq

0...2 000 ppm CO<sub>2</sub> eq

s

60 s

VDC

12 VDC +/- 10 %

A

40 mA

A

1 A (use for fuse sizing)

IP 20

-25...50°C

5...95 % RH (without condensation) 85...110 kPa

0...50°C

5...95 % RH (without condensation) 85...110 kPa

0 to 100 %

0 % = 0 ppm CO<sub>2</sub> eq ; 100 % = 2 000 ppm CO<sub>2</sub> eq

VDC

12 VDC +/- 10 %.

KHz

1 KHz

0 to 10 V

0 V = 0 ppm CO<sub>2</sub> eq ; 10 V = 2 000 ppm CO<sub>2</sub> eq

V

0 to 10 V

Ω

>1MΩ

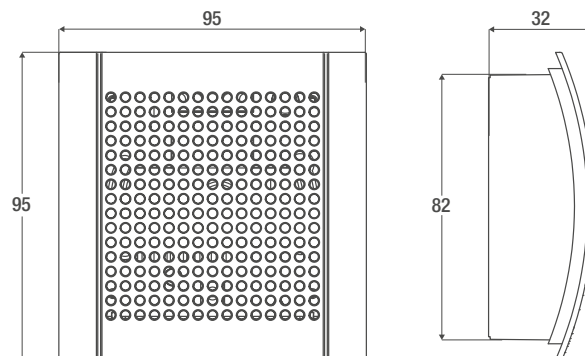
g

80.5 g

white

ABS

Dimensions in mm



FLY621GB\_V1