

Colswe-VOC-V2

Art. No. 13010

Colswe-VOC-V2 measures the quantity of volatile organic compounds (VOCs) in ambient air. Measurements can be read directly via an USB connection or they can be stored in its internal flash memory for later retrieval via the USB connection.

Colswe-VOC-V2 is ideal to monitor the air quality in residential, commercial and industrial spaces. The MEMS metal oxide sensor used in this device measures the variation of total volatile organic compounds in ambient air. The measurements are used to estimate the concentration in ppm CO₂ equivalents (relative). **Colswe-VOC-V2** detects alcohols, aldehydes, aliphatic hydro-carbons, amines, aromatic hydro-carbons (petrol vapors, etc.), carbon oxides, CH4, LPG, ketones and organic acids. Be aware that the first estimation is only available 5-6 minutes after powering on **Colswe-VOC-V2**.

The initial estimated value measured by **Colswe-VOC-V2** is 450 ppm CO₂ equivalents (theoretical value for fresh air). The sensor measures relative variations of volatile organic compounds to provide an estimated ppm value, with an automatic baseline correction. The absolute value must therefore be interpreted with great care, as it is subject to drift. It is not comparable with the absolute value measured by a **Colswe-CO**₂ but it has the advantage of including a broader range of volatile organic compounds than a simple CO₂ sensor.

The sensor part can be split from the main USB board and moved several meters away using ribbon cable, soldered on the designed contact pads. This may be useful to move the sensor close by to HVAC ducts.

Package: Sensor: VOC-V2 (Art. No. 23010).

Enclosure: Box-Long-Thin-Black-Vents (Art. No. 25010).

Cable to choose between:

USB-A-MicroB-180, length 180 cm, right angle (Art. No. 36010) USB-A-MicroB-180, length 180 cm, left angle (Art. No. 36020) USB-A-MicroB-180, length 180 cm, straight (Art. No. 36030) Power Supply: 3 ports - USB-A white, 100-240V to 5V USB, 2,4A, 12W

Colswe-VOC-V2 can be connected directly to:

- WiFi network with Colswe-Hub-Wireless-SR (Art. No. 27000)
- GSM network with a Colswe-Hub-GSM (Art. No. 27010)
- Ethernet network with a Colswe-Hub-Ethernet (Art. No. 27020)

Refer to the respective Hub article number

Downloads in www.colswe.com:

- Colswe-VOC-V2 User Manual.pdf
- VirtualHub.Zip



Technical Specification

Module name: Colswe-VOC-V2

Article No.: 13010

Sensor name: Yocto-VOC-V2 (Made in Switzerland)

Sensor iAQ-core C (MEMS sensor)

USB connector: micro-B Refresh rate: 1 Hz

Measuring range: 450..65000 ppm equiv. Accuracy: n/a (relative estimate)

Normal operating temperature: 5...40 °C
Extended operating temperature: 0...50 °C
Max temperature: 50 °C
Min temperature: 0 °C

Supported Operating Systems: Windows, Linux (Intel + ARM), Mac OS X, Android

Drivers: no driver needed

API / SDK / Libraries (USB+TCP): C++, Objective-C, C#, VB .NET, Delphi, Python,

Java/Android

API / SDK / Libraries (TCP only): Javascript, Node.js, PHP, Java

RoHS: yes

Enclosure: YoctoBox-Long-Thin-Transp-Vents

USB cables:

USB cable left: USB-A to left angle USB micro-B, 180 cm

Art. No.: 36010

USB cable right USB-A to right angle USB micro-B, 180 cm

Art. No.: 36020

USB cable straight USB-A to straight USB micro-B, 200 cm

Art. No.: 36030

Power supply: 3 ports USB-A, 100-240 V to 5 V USB, 2,4 A, 12 W

 Art. No.:
 59010

 Thickness:
 12,7 mm

 Width:
 25,5 mm

 Length:
 63,3 mm

 Weight:
 8.6 g

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