

Colswe-CO₂ Logger

Art. No. 13000

Colswe-CO₂ measures the quantity of carbon dioxide (CO₂) in ambient air. Measurements can be read directly via an USB connection or stores the measurements in its internal flash memory for later retrieval via the USB connection.

Colswe-CO₂ is ideal to monitor precisely the air quality in residential, commercial and industrial spaces, as well as potentially dusty air ducts used in HVAC (Heating Ventilation and Air Conditioning) systems. **Colswe-CO₂** has a non-dispersive infra-red absorption (NDIR) and requires no maintenance. It provides precise measurements already within the first minute after powered on.

The expected CO₂ concentration in fresh air varies between 360 and 390 ppm depending on the location. Industry consensus standard rate maximal admissible CO₂ between 1'000 and 2'500 ppm in ventilated buildings. At around 10'000 ppm some people feel dizziness. The standard version of this sensor measures up to 10'000 ppm (vol.), or 1%.

Colswe-CO₂ is delivered with a 30'000 ppm sensor (3%) upon request and per unit. It can also be delivered with a 300'000 sensor (30%) and a minimum quantity of 100 units. The latest has a SenseAir K-30 sensor.

Package:

Sensor: CO₂ (Art. No. 23000)

Enclosure: Box-CO₂, Black (Art. No. 25000)

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 (Art. No. 59010)

Colswe-CO₂ can be connected directly to:

- WiFi network with Colswe-Hub-Wireless-SR R (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-CO₂ User Manual.pdf
- VirtualHub.Zip

Technical Specification

Module name:	Colswe-CO ₂
Article No.:	13000
Sensor name.:	Yocto-CO ₂ (Made in Switzerland)
Sensor:	SenseAir K-30
USB Connector:	micro-B
Refresh rate:	1 Hz
Measuring range	0-10000ppm (vol.)
Accuracy:	30 ppm 5 %
Sensitivity:	20 ppm 1 %
Normal operating temperature:	5...40 °C
Extended operating temperature:	0...50 °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-CO ₂ -Black
Art. No.:	25000
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:	28 mm
Width:	68 mm
Length:	82 mm
Weight:	80,6 g

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