

Colswe-CO₂ Module (EU) User Manual

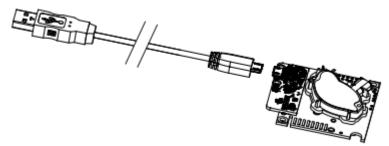
www.colswe.com

1. Introduction

Colswe-CO₂ manual offers a quick step-by-step start-up of the operation of the Colswe-CO₂ Module. Technical information can be found in the Specification Sheet of this product in www.colswe.com.

2. Positioning (see below "Connection")

- a. During the measuring/logging process only 5V DC power is needed.
- b. Colswe-CO₂ can be mounted horizontally onto a regular 230 V power socket with the included power USB charger/adapter and a USB-A to USB-micro-B plug adapter (not included).
- c. For best measuring results the enclosure should be placed vertically or horizontally against any surface that is of neutral temperature. Heated or cooled surfaces can influence the readings.
- d. For the most convenient positioning, angled USB cables can be chosen.



You must plug in your Colswe-CO2 module with a USB-A to USB micro-B cable

3. Connection (measuring/logging)

- a. During the basic measuring/logging process only 5V DC power is needed.
- b. Colswe-CO₂ can be powered by a 5V AC/DC power adapter with USB outlet (included) and a USB cable and with micro-B connector (included).
- c. Care should be given to the USB micro-B connector; it is delicately soldered onto the PCB and should be handled with care.

4. Connection (Testing; sensor management; data retrieval)

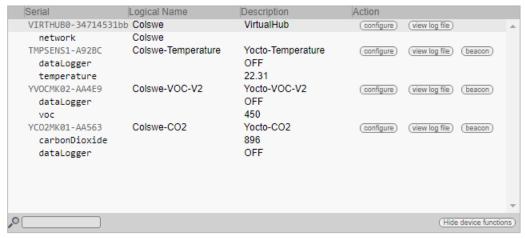
For testing purposes, sensor management and data retrieval, Colswe-CO₂ should be connected to a PC using the included USB-A USB-micro-B cable or the included plug adapter which can also be used for powering Colswe-CO₂.

5. Preparation - Access to Colswe-CO₂

- a. The only way to communicate with Colswe-CO₂ is with an is with an installed software.
- b. To start with, the VirtualHub.zip file is to be retrieved from the Colswe website to enable a communication of Colswe-CO₂ through an IP network.
 - Choice between several versions: Windows, Linux, Mac-OS-X an Qnap.
- c. After unzipping the file, apply/install the VirtualHub.
- d. Open your web browser and link to http://127.0.0.1:4444

- e. The link gives access to a **Device List**, which shows the VirtualHub and all the devices connected to the PC. The unique serial (ID) numbers of the VirtualHub and the devices are shown.
- f. Congratulations, you are now able to communicate with your Colswe-CO2.

A pop-up menu shows a list of all Colswe devices connected to your host. For further information about each one of these devices just click on the serial numbers. To configure click on the corresponding "configure" button. Each beacon button will toggle the blue beacon LED light on the corresponding device allowing you to locate it.

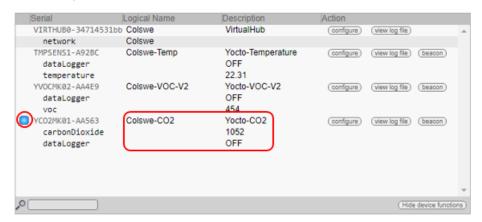


Device list as displayed in your web browser

g. An initial glimpse of the current measured values can be obtained by left clicking the button in the lower right-hand corner "show device functions" and the pop-up menu below appears

Device list

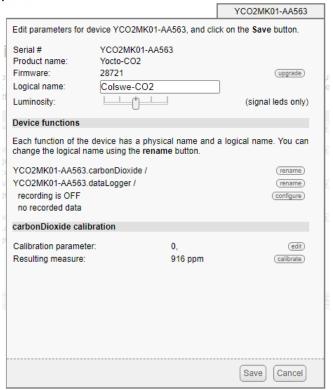
Here is the list of all devices connected to your host. If you want more information about each of these devices just click on serial number. If you want to configure one device, just click on the matching **configure** button. Each **beacon** button will toggle the blue beacon led on matching device allowing you to locate it.



h. The device functions can be hidden again by left clicking the button in the lower right- hand corner "*Hide device functions*".

6. Configuration of Colswe-CO2Module

- a. Colswe-CO₂ can be accessed and configured by left clicking the button "configure" on the line of the corresponding device.
- b. The properties of the device are shown.



Properties of the Colswe-CO2 module

- c. First of all the firmware of the sensor has to be upgraded. This can be done by left clicking the button "*upgrade*".
 - A pop-down menu appears. It is recommended to choose: "Use most recent firmware from <u>www.yoctopuce.com</u>". Click on "**Upload**" and the upgrade process starts; the led- light in Colswe-CO2 blinks brightly briefly. A successful upgrade is confirmed; please close the menu.
- d. Click again on "configure" in the Device List.
- e. Colswe-CO₂ can be given a unique Logical name, which can simply be a unique device name by the client. This name can have a maximum length of 19 characters. Authorized characters are A..Z, a..z, 0..9, _, and -.

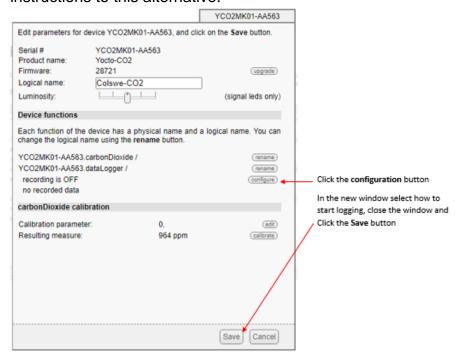
NOTE: No same name for different devices.

- f. The signal LED light of Colswe-CO₂ can be set at a low or high luminosity by a slider. When the sensor is positioned in a working or a public place, it is recommended to set the luminosity at "low" (slider to the left).
- g. Units of temperature and humidity can be set:
 - The temperature can be set at °C, °F (or °K)
 - The humidity can be set at % RH (relative humidity)
 - The humidity can be set at g/m³ (absolute humidity)

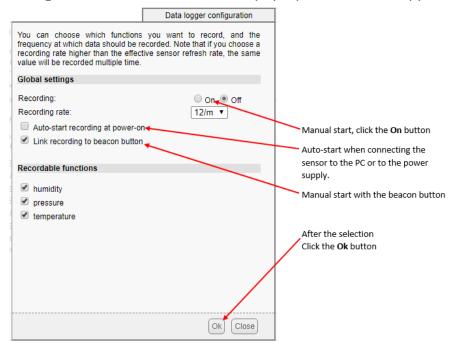
7. Configuration of the datalogger

Read below about the different alternatives to activate or deactivate the datalogger.

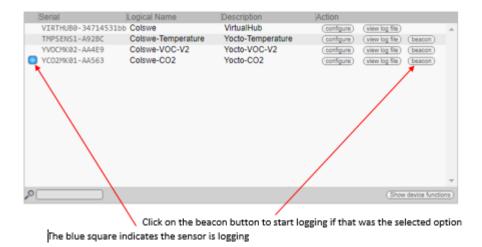
h. In the device List, click on the "configure" button of the device you want to activate. The pop-up menu below appears, follow the instructions to this alternative.



i. After clicking on the "Save" button a new pop-up menu below appears



j. The alternative with the beacon button is applicable if the beacon button has been activated.



k. For the following alternative, In the Device List, click on the serial number of the device to be activated. A pop-up menu appears, click on "Open API browser (Popup)". Follow the instructions below.

