# Colswe-Meteo Module (EU)
User Manual

www.colswe.com

1. Introduction

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

2. Standard mounting

a. The enclosure is equipped with 4 fixing clamps for 3 mm screws. The clamps can be removed (broken off).
b. The enclosure is also equipped with 2 strong magnets. The magnets can be removed.
c. At the place of the magnets the enclosure can be fixed from the inside by 2 countersunk screws.
d. The enclosure can also be fixed to a surface with double sided adhesive tape (included)

Remove the shining protector layer
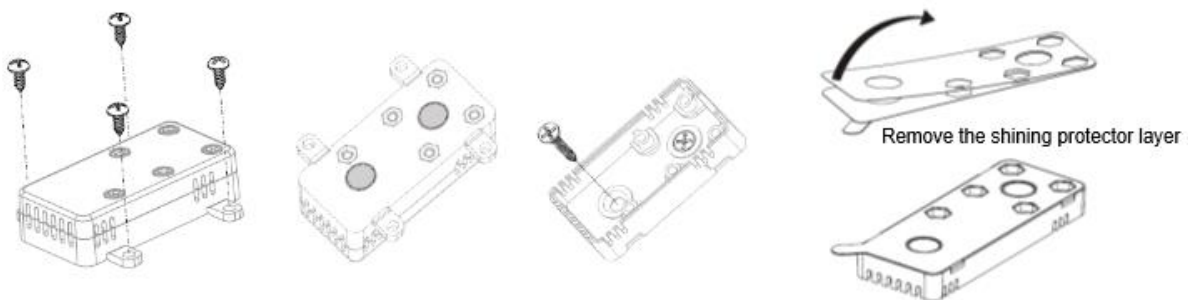
3. Positioning (see below "Connection")

a. During the measuring/logging process only 5V DC power is needed.
b. Colswe-Meteo 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,
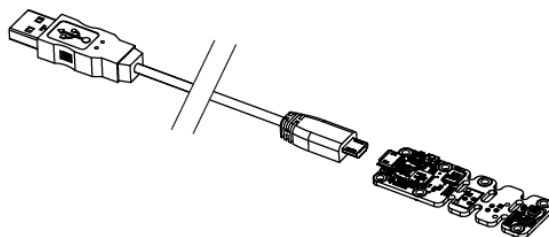
You must plug in your Colswe-Meteo module with a USB-A to USB micro B cable

4. Connection (measuring/logging)

a. During the basic measuring/logging process only 5V DC power is needed.
b. Colswe-Meteo 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. Colswe-Meteo can be mounted horizontally too, 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).

d. Care should be given to the USB micro-B connector; it is delicately soldered onto the PCB and should be handled with care.

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

For testing purposes, sensor management and data retrieval, Colswe-Meteo 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-Meteo.

6. Preparation – Access to Colswe-Meteo

a. The only way to communicate with Colswe-Meteo is with an installed soft-ware.

b. To start with, the VirtualHub.zip file is to be retrieved from the Colswe website to enable a communication of Colswe-Meteo 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-Meteo.

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 device's serial number. 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.

Serial	Logical Name	Description	Action		
VIRTHUB0-34714531bb	Colswe	VirtualHub	(configure)	(view log file)	
METEOMK1-AA505	ColsweMeteo	Yocto-Meteo	(configure)	(view log file)	(beacon)

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.
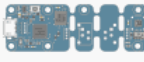
Serial	Logical Name	Description	Action
VIRTHUB0-34714531bb	Colswe	VirtualHub	(configure) (view log file)
network	Colswe		
METEOMK1-AA505	ColsweMeteo	Yocto-Meteo	(configure) (view log file) (beacon)
dataLogger		OFF	
humidity		35.3	
pressure		1007.2	
temperature		26.49	

(Hide device functions)

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

7. Configuration of Colswe-Meteo

a. Colswe-Meteo 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.

METEOMK1-AA505

METEOMK1-AA505 / Colswe-Meteo is a 20x60mm board with humidity, temperature and pressure sensors.

Kernel

Serial #	METEOMK1-AA505
Product name:	Yocto-Meteo
Logical name:	Colswe-Meteo
Firmware:	28721
Consumption:	23 mA
Beacon:	Inactive (turn on)
Luminosity:	50%

Sensors

	Humidity	Temperature	Pressure
Current value	34.962 % RH	23.227 'C	1006.59 mbar
Minimum value	34.962 % RH	22.627 'C	1006.545 mbar
Maximum value	37.037 % RH	23.227 'C	1006.815 mbar

Misc

Open API browser (pop-up)
Get user manual from yoctopuce.com

(Close)

Properties of the Colswe-Meteo 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 www.yoctopuce.com"*. Click on "**Upload**" and the upgrade process starts; the LED light in Colswe-Meteo blinks brightly briefly. A successful upgrade is confirmed; please close the menu.

d. Click again on *"configure"* in the Device List.

e. Colswe-Meteo 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-Meteo 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 ^{o}C, ^{o}F (or ^{o}K)
    - The humidity can be set at % RH (relative humidity)
    - The humidity can be set at g/m^3 (absolute humidity)
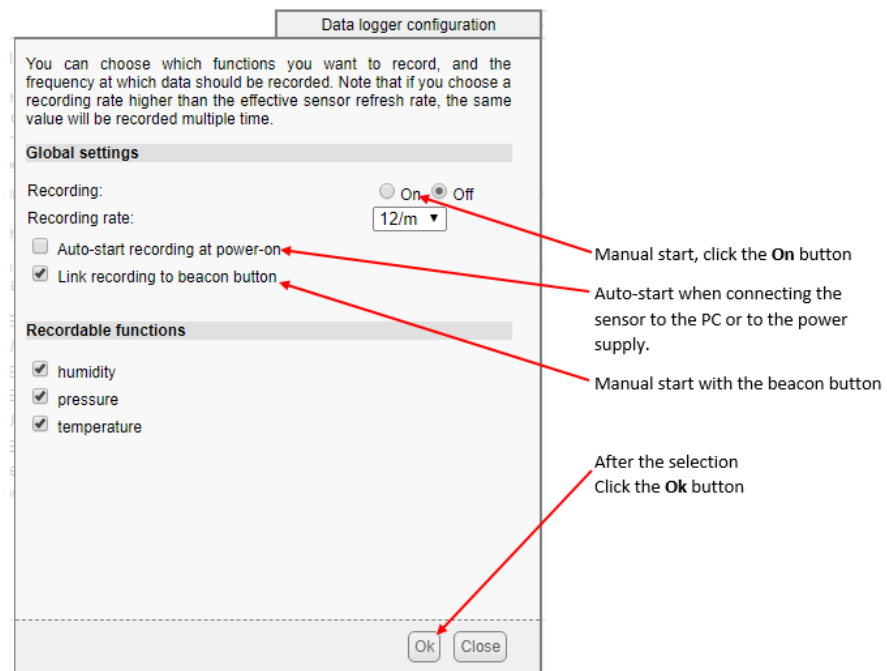
8. Configuration of the datalogger

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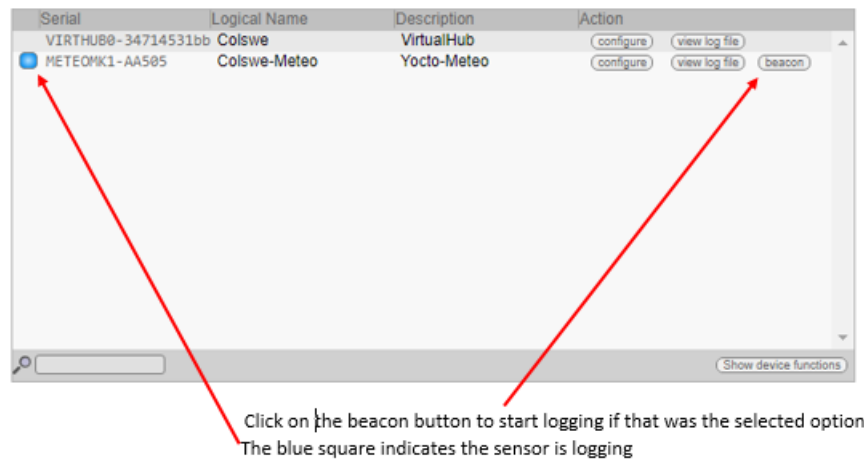
i. After clicking on the *"**Save**"* button a new pop-up menu below appears

Data logger configuration

You can choose which functions you want to record, and the frequency at which data should be recorded. Note that if you choose a recording rate higher than the effective sensor refresh rate, the same value will be recorded multiple time.

Global settings

Recording: ○ On ● Off
Recording rate: 12/m ▼
☐ Auto-start recording at power-on
☑ Link recording to beacon button

Recordable functions

☑ humidity
☑ pressure
☑ temperature

Manual start, click the **On** button

Auto-start when connecting the sensor to the PC or to the power supply.

Manual start with the beacon button

After the selection
Click the **Ok** button

Ok   Close

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

Serial	Logical Name	Description	Action		
VIRTHUB0-34714531bb	Colswe	VirtualHub	configure	view log file	
METEOMK1-AA505	Colswe-Meteo	Yocto-Meteo	configure	view log file	beacon

Show device functions

Click on the beacon button to start logging if that was the selected option
The blue square indicates the sensor is logging

6

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.

The second alternative to start logging is to click on the device in the device list.

In the new window click the Turn on button to activate the beacon button

The third alternative is to click on Open API browser (pop-up), scroll the API browser to get to datalogger where it's possible to select between the following alternatives:

Clicking on the ON button
Autostart
Activating the beacon button