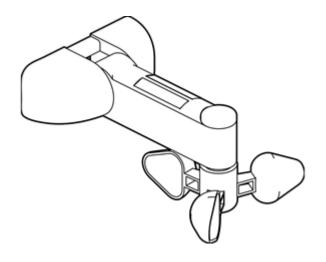
Velbus weather station

VMBMETEO

Manual







1. Possibilities



The VMBMETEO weather station measures four values:

- outdoor temperature (between -30°C and 60°C)
- quantity of rain fall (0 to 100 mm/h)
- illuminance (3 to 65000 lux)
- wind speed (0 to 100 km/h)

It has **8 output channels** (CH1-8), each of which can contain a **random combination** of the above values. By default, they're preconfigured to trigger some of the most used alarms:

- 1. Frost alarm: closes at 0°C or less, and reopens at 0,5°C or more (measured during at least 2 minutes)
- 2. **Heat alarm**: closes at 25°C or more, and reopens at 24,5°C or less (measured during at least 2 minutes)
- 3. Rain alarm: closes at 1mm/h rain or more, and reopens at less than 0,5mm/h (measured during at least 15 minutes)
- Dawn alarm: closes at 10 lux of light or more (measured during at least 2 minutes), and reopens at 5 lux or less (measured during at least 2 minutes)
- Dusk alarm: closes at 5 lux of light or less (measured during at least 2 minutes), and reopens at 10 lux or more (measured during at least 2 minutes)
- 6. **Sun alarm**: closes at 50 000 lux of light or more (measured during at least 2 minutes), and reopens at 40 000 lux or less (measured during at least 5 minutes)
- 7. **Wind alarm**: closes at a wind speed of 30 km/h or more, and reopens at 25 km/h or less (measured during at least 15 minutes)
- 8. **Storm alarm**: closes at a wind speed of 62 km/h or more, and reopens at 55 km/h or less (measured during at least 15 minutes)

These alarms can be fully customized as desired by the user, as any combination of the four measured values. Each alarm (output channel) can exist of different conditions (rules). In total, a maximum of 24 conditions can be used, divided over the 8 output channels.

For each condition, the following can be chosen:

- which **value** (temperature, wind, rain or light) is used. The same value can be used more than once in the same alarm (e.g. close channel at 5 lux of light or less, or 25 lux or more)
- alarm at higher then or lower then
- the activation level (the threshold for activation)
- the activation time (how long the activation level has to be exceeded before activation)
- the deactivation level (the threshold for deactivation)
- the deactivation time (how long the deactivation level has to be exceeded before deactivation)

The different conditions can be combined either with AND, or with OR. (AND = alarm when all conditions are met, OR = alarm when at least one condition is met.)



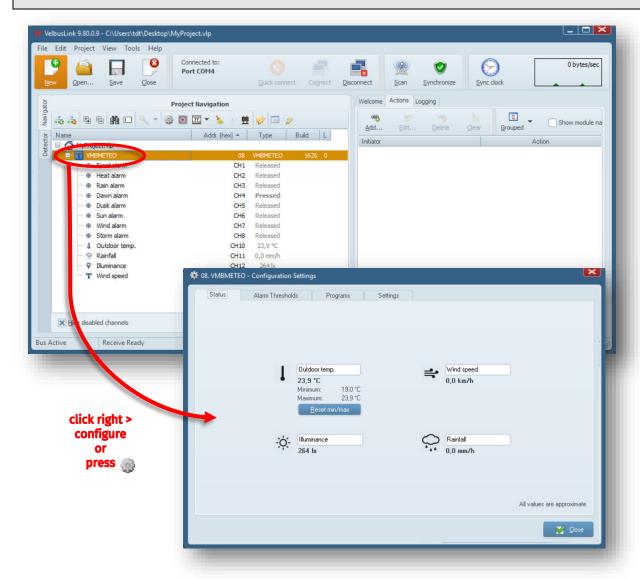
2. Configuration with Velbuslink



For a general explanation about installing and configuring Velbus, please consult the installation manual on www.velbus.eu.



Always use the latest version of Velbuslink (free download at <u>www.velbus.eu</u> > Support > Downloads).

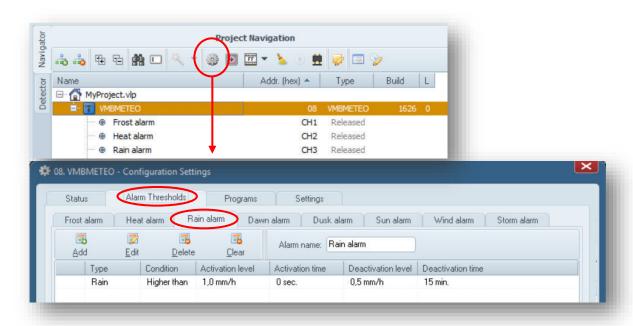




2.1.Example of an alarm configuration

E.g.: configure alarm channel that closes when it rains, or when the wind speed is too high, or when there's too little light (to control a sunscreen).

We start with one of the preconfigured alarms, e.g. the rain alarm (CH3). Select the VMBMETEO module and click "Configure" . In the configuration screen, open the tab "Alarm thresholds", and select the "Rain alarm".



First, we change the name in the text box "Alarm name" (in this example, we choose "Sunscreen").



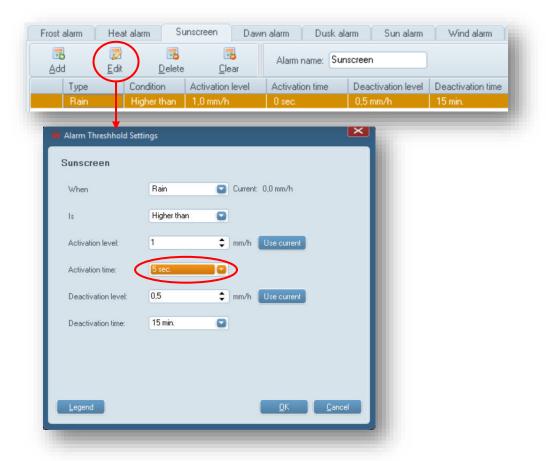
We can keep the condition for rain. However, we can customize the parameters as desired.

For example, we can change the activation time.

Select the condition "Rain" (click somewhere on the rule), and click "Edit".

In the window "Alarm threshold settings" we can customize all parameters. For example, we set the activation time to 5 seconds (see below).

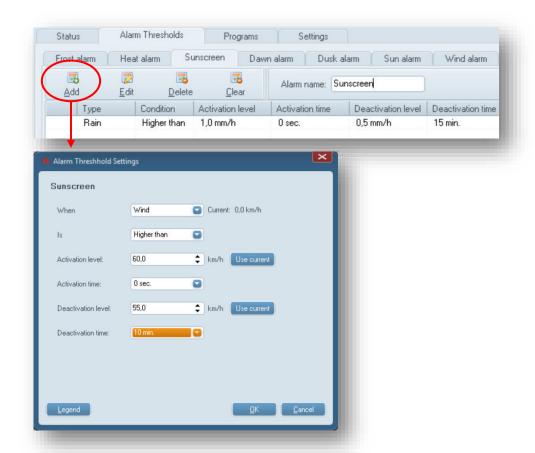




Click "OK".

Now we can add the other two conditions. We start with the condition for wind. Click in the window "Configuration settings" on "Add". Configure in the "Alarm threshold settings" the following parameters (see image below).



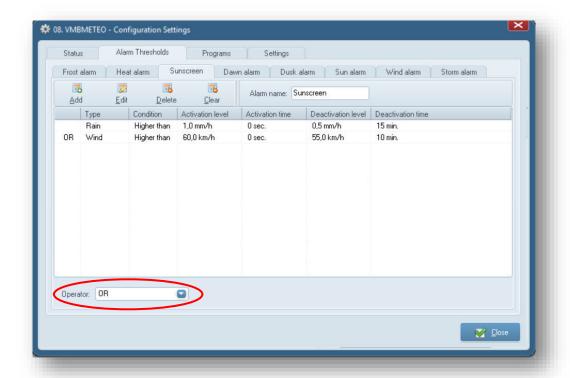


Hint: to get an overview of commonly used values, click on "Legend" in the lower left corner in the window "Alarm threshold settings". Click "Done" to close the legend.

Click "OK" in the window "Alarm threshold settings".

In the configuration settings, make sure that in the lower left corner, the operator is correctly set (OR or AND).





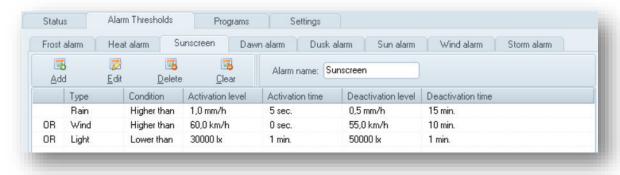
Finally we add, in the same way as we added the wind-condition (via the "Add" button), the condition for light intensity.



The three conditions are now set. The output channel "Sunscreen" (CH3) will close when one of the conditions is met. It will only open when none of the conditions are met.

This output channel can now be used as condition for actions to control the sunscreen. (For a general explanation about programming Velbus, see the <u>Velbus Installation guide</u>, <u>Part 2: Programming</u>).



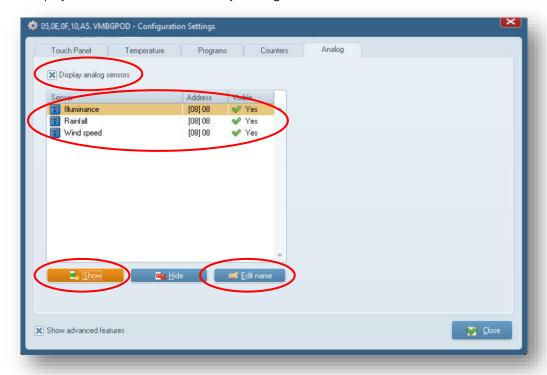




2.2. Show measured values on a VMBGPOD glass touch panel with oled display

Rain quantity, wind speed and light intensity

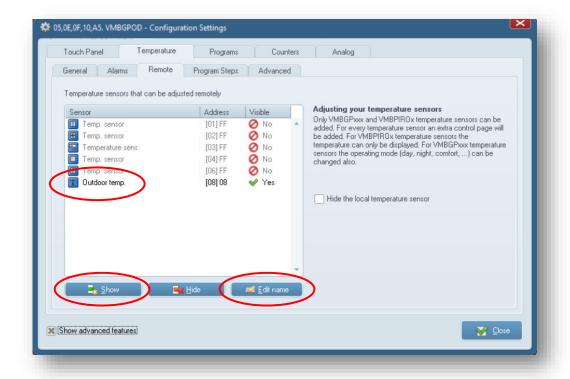
To show the rain quantity, the wind speed and/or the light intensity on a VMBGPOD glass touch panel with oled display, select in the "configuration settings" of the VMBGPOD the tab "Analog". Check "Display analog sensors". Then select the values you want to be displayed and click "Show". Per selected value a page is added to the. The displayed name can be customized by clicking "Edit name".



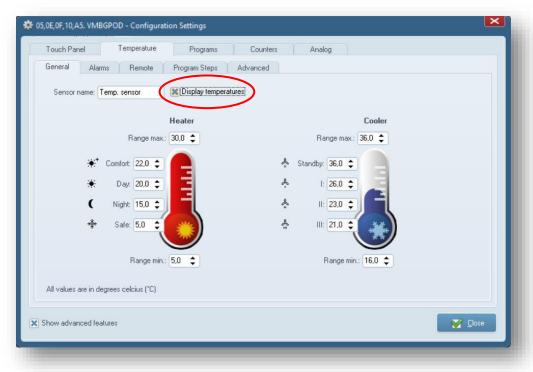
Outdoor temperature

To display the outdoor temperature measured by the VMBMETEO on a VMBGPOD glass touch panel with oled display, go in the "configuration settings" **of the VMBGPOD** to the tab "Temperature" > "Remote". Select the temperature sensor of the VMBMETEO and click "Show". Click "Edit name" to customize the displayed name.





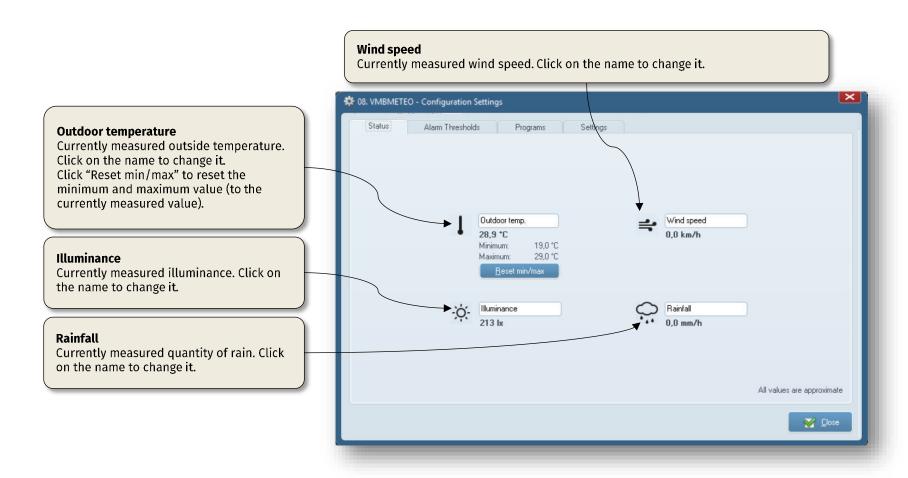
Check "Hide the local temperature sensor" if you don't want the temperature sensor of the panel itself to be shown. Make sure that in the tab "Temperature" > "General" the option "Display temperatures" is checked.





2.3. Overview of the settings

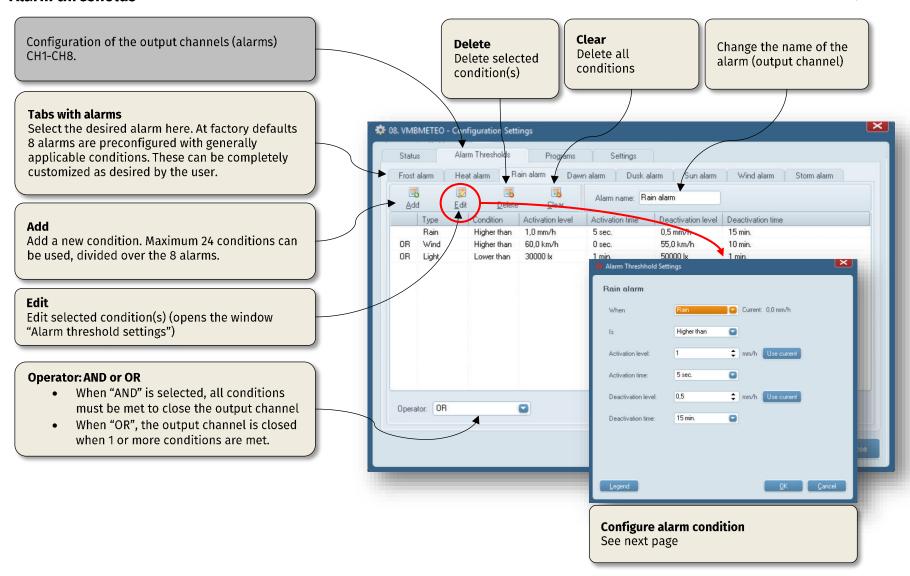
Status



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Alarm thresholds

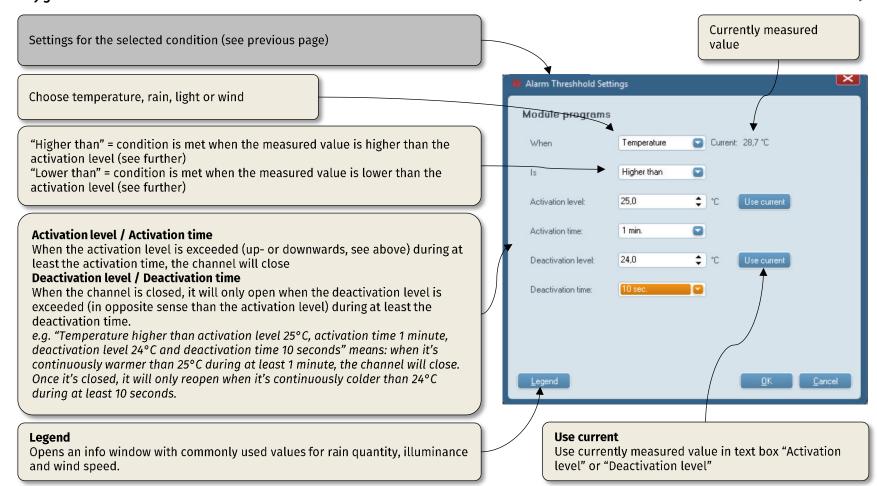




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Configure alarm threshold





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Timers

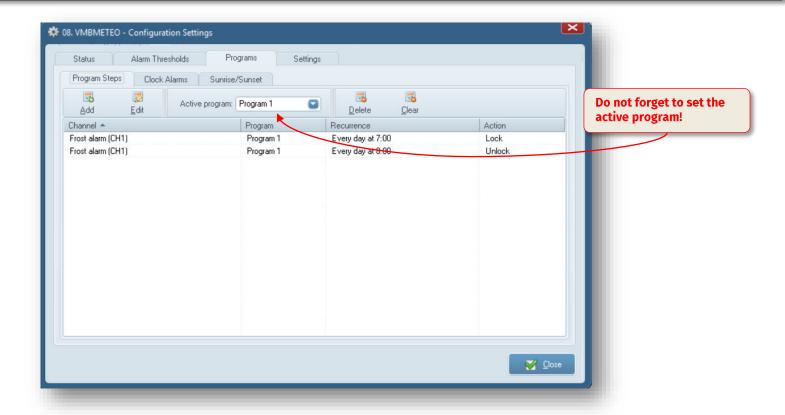


For a detailed explanation regarding program steps in Velbus, see the Velbus installation manual.

Timers

In this tab, program steps can be added to lock or unlock output channels at specific times. These settings are analogous to these for other input channels, please consult the "Velbus installation guide, part 2: Programming".

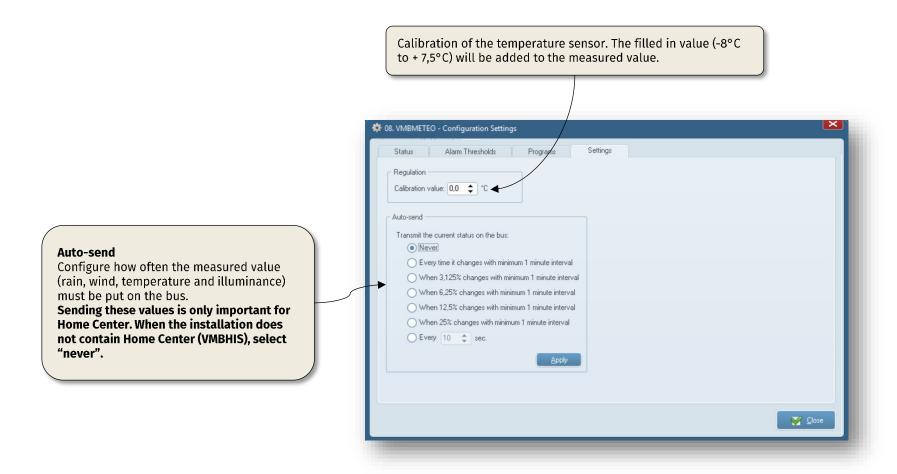
E.g.: Frost alarm is locked every day at 07:00 and unlocked at 08:00. Between 07:00 and 08:00, linked actions will be blocked.



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Settings





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