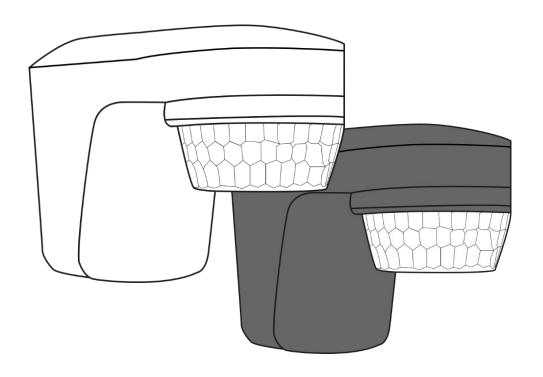
# VMBPIRO(W/B) Outside motion, twilight and temperature sensor Manual







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#### 1. Possibilities

#### 1.1. Eight simultaneous output channels + outside temperature

- ✓ 2 x twilight sensor ("light" and "dark") with adjustable thresholds
- ✓ 2 x motion detection with adjustable timers
- ✓ 2 x light dependent motion detection: reaction on movement only when it's dark enough. With adjustable twilight thresholds.
- √ High temperature alarm
- ✓ Low temperature alarm
- ✓ Outdoor temperature: for use with Home Center or view on Velbus glass touch panels with OLED display
- ✓ Time-dependent operation: All output channels can be programmed separately to operate at certain times.

  With built-in astronomical clock (sunrise and sunset).



All channels work independently.

E.g.: motion detection (light-independent) can be used as alarm, while at the same time the light-dependent operation can switch the lights of the driveway and the facade.

# 1.2. Intelligent operation

#### **External override**

When a linked light is manually operated, the motion sensor can be temporarily suppressed (this option can be enabled or disabled).

E.g.: the motion sensor switches a light which can be operated by a push button as well. The option "external override" temporarily disables the sensor when the light is manually switched on. When the light is manually switched off, the sensor is enabled and resumes its automatic operation.

#### Ignore influence of linked light

Light-dependent motion detection will continue to work when the linked light shines into the sensor. The sensor will continue to detect motion so that the light does not switch off periodically and needs a "wave" to switch it back on. E.g.: the sensor switches on a light when it's dark outside (light-dependent). When the light switches on, it will possibly shine into the sensor and "falsify" the light measurement. With a classic detector, the motion detection will not work as long as the light is switched on. However, the Velbus sensor will continue to detect motion while the light is switched on and restart the timer without switching off the light.



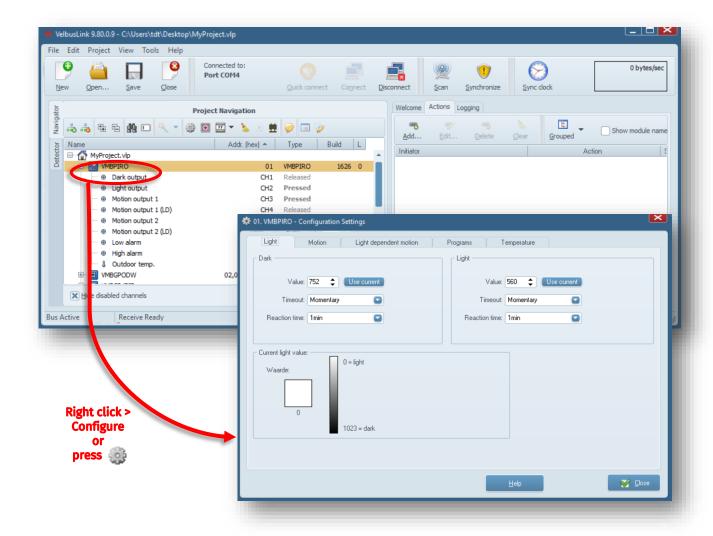
# 2. Configuration and use



For a general explanation about installing and configuring Velbus, please consult the installation manual on <a href="https://www.velbus.eu">www.velbus.eu</a>.

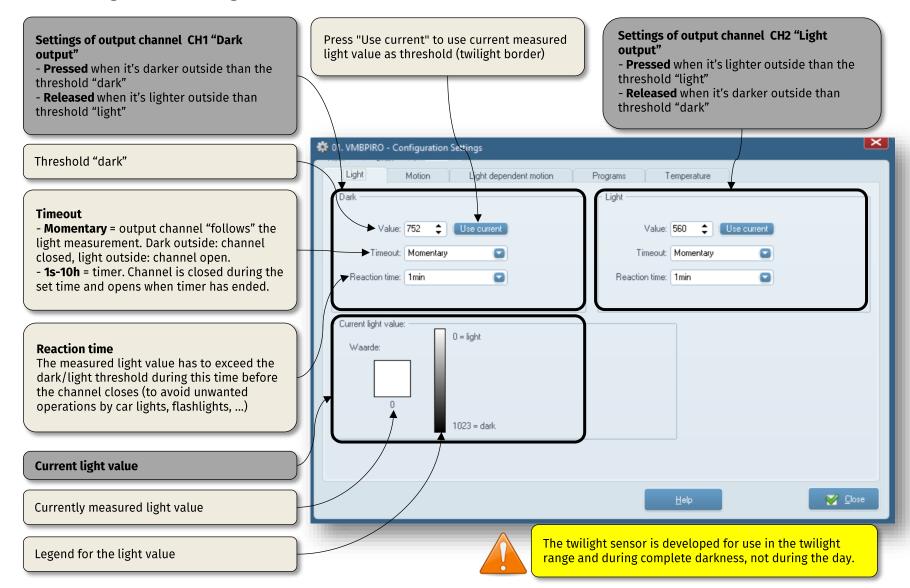


Always use the latest version of Velbuslink. This can be downloaded for free at <u>www.velbus.eu</u> > Support > Downloads.



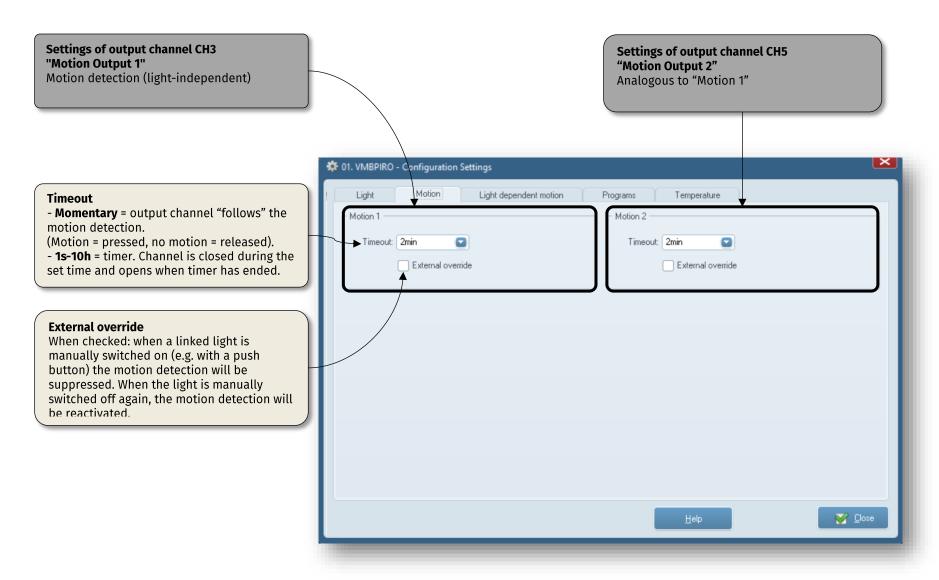


#### 2.1. Settings of the twilight sensor



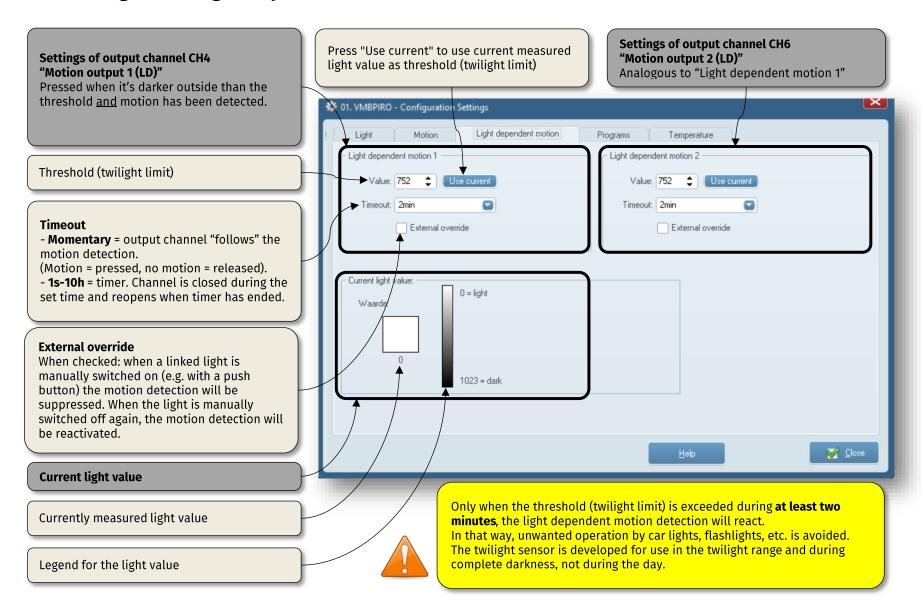


# 2.2. Settings of the motion sensor



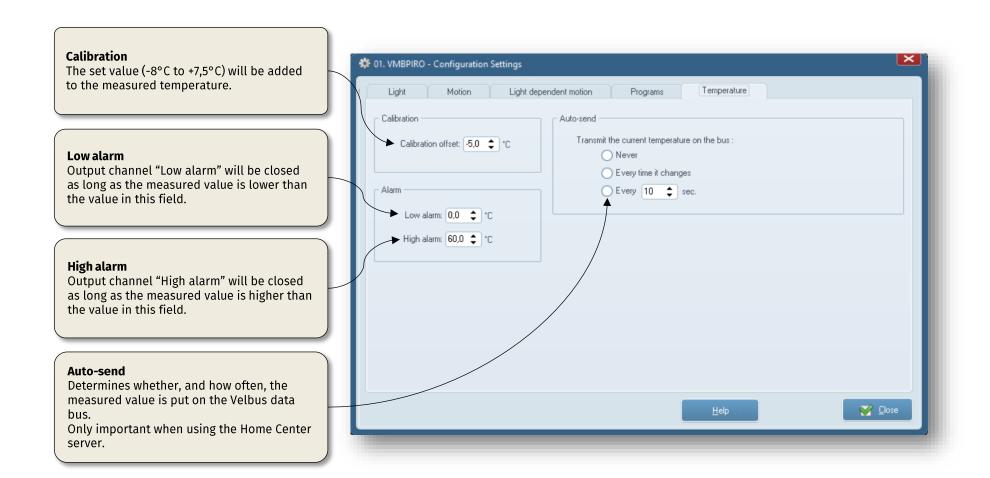


#### 2.3. Settings of the light-dependent motion detection



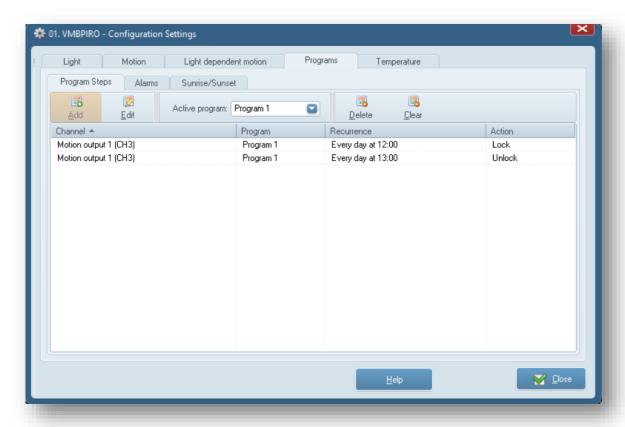


# 2.4. Settings of the temperature sensor





# 2.5. Disables channels temporarily



Program steps enable time dependent operation. The twilight, motion and light-dependent motion sensor can be locked and unlocked at specific times, independent of each other.

In print screen above the output channel "Motion output 1" is locked (inactive) every day between 12:00 and 13:00.



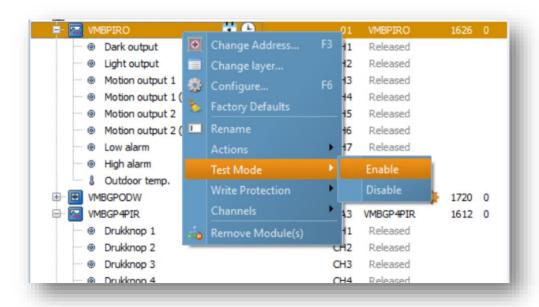
Programs are configured in the same way as with other Velbus modules.

Please consult the general instructions on www.velbus.eu > support.



#### 3. Test mode

The sensor can be put in "test mode" by right-clicking on the module in Velbuslink and enabling "Test mode (PIR). In "test mode" darkness is simulated and all reaction times and timeouts are disabled to ensure that the sensor reacts immediately to motion. "Test mode" can be deactivated by choosing "Test Mode (PIR)" > "Disable", and stops automatically after 30 minutes, to avoid that the sensor stays unwanted in "test mode". When using automatic detection in Velbuslink, it's recommended to put the module in "test mode".



#### 4. Remarks

# 4.1. Configuration of timers

**Default operation**: put the "timeout" of the sensor channel on 1 second, and use the action "15. Restartable timer" to close an output channel (e.g. a relay) during a certain period. External override will not work this way.

**With external override:** use the "time out" of the sensor channel to configure the timer and link the output channel with action "1. Momentary".

### 4.2. Hardware factory setting

Do **not** remove the "Velbus" sticker on the sensor head. The setting wheels which are located under the sticker **always have to be in factory setting**.

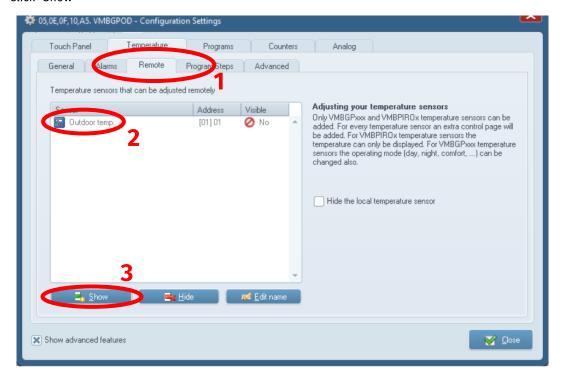
The settings of the VMBPIRO(W/B) only can be changed via Velbuslink, the Velbus configuration software.



# 4.3. Show outdoor temperature on VMBGPOD (glass touch panel with display)

The outdoor temperature can be shown on a Velbus VMBGPOD(W/B) glass touch panel with OLED display.

- Select the VMBGPOD(W/B) in Velbuslink and click ...
- In the configuration screen, choose tab "Temperature" > "Remote"
- Select the temperature sensor by clicking on it
- · Click "Show"



A new page is now added to the VMBGPOD(W/B) glass touch panel, showing the outdoor temperature. To make this page visible, the check box "display temperatures" in the tab "temperature" > "general" has to be checked (see image below).

