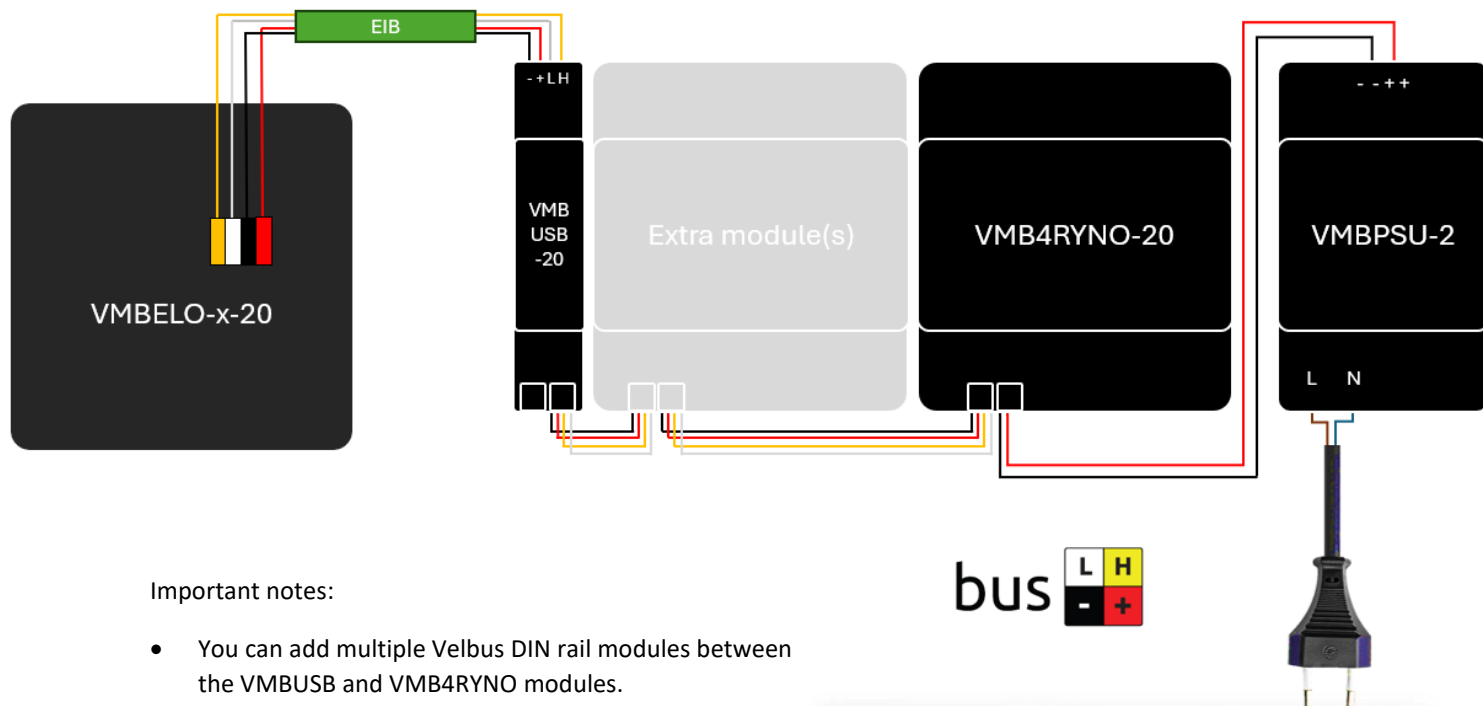


Congratulations on your purchase of the Velbus Starter Kit!
This quick start guide will walk you through the installation step by step.
Need a more detailed manual? Scan the QR code to access the [product page](#) and find additional support under the "Support" tab.



Step 1: Connecting the Components

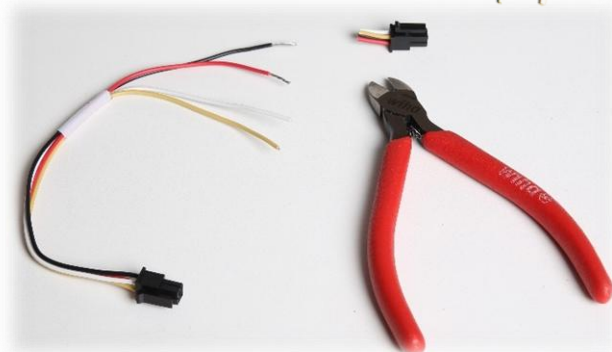
Connect the components of the set as shown on the connection diagram:



Important notes:

- You can add multiple Velbus DIN rail modules between the VMBUSB and VMB4RYNO modules.
- Use the included Molex cable to connect the VMB4RYNO module to the VMBPSU module. Cut off one side of the Molex connector, strip the black (-) and red (+) wires, and connect them to the VMBPSU.
- The Molex connections on the VMB4RYNO and VMBUSB modules are internally connected. It does not matter which port you use.
- Each DIN rail module comes with a Molex cable for daisy-chaining the bus. Need additional (longer) cables? See our [VMBCABLE20SET](#), [VMBCABLE40SET](#) and [VMBCABLE150SET](#).
- Strip both ends of the EIB cable and connect them to the connectors on the VMBELO and VMBUSB modules. Follow the color coding of the bus connections:

Red	Voltage 15V ($\pm$ 3V)	+
Black	Voltage 0V	-
White	CANbus Low	L
Yellow	CANbus High	H



Overview cable sets:



Step 2: Configuring the Terminators

All Velbus modules (except the VMBUSB-20) are equipped with a terminator (a switch marked "TERM") that is open by default. In every Velbus installation, at least two terminators must be closed, with as much cable distance as possible between them. These are usually the first and last (farthest) modules in the installation.

For DIN rail modules, open the front panel to access the terminator. For other modules, the terminator is located on the back. The terminator is enabled when the corresponding LED is lit.



In this basic setup, close the terminator on both the VMBELO panel and the VMB4RYNO module.

Step 3: Checking the BUS Connection

Velbus is a highly stable system, but any issues are usually caused by poor BUS connections. Always perform the following check during the initial installation and after any cabling changes:

Press any button on a module (except the RESET button). You will see the LED next to the TX (transmit) marking light up briefly. At the same time, the RX (receive) LEDs on all other modules in your installation will also briefly light up. This indicates that a signal from the module is correctly placed on the bus and received by the other modules.

Repeat this test for all other modules in your installation (except for the VMBUSB module, as it has no buttons). If the other modules do not respond to the signal, double-check the cabling and follow our [troubleshooting guide](#).

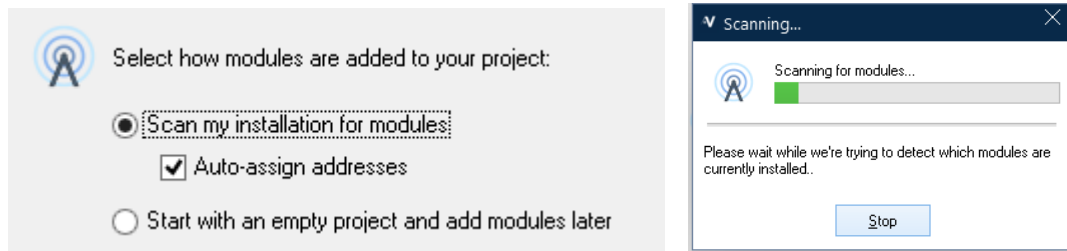
Step 4: Programming via PC

- Download the latest Velbuslink software from www.velbus.eu/downloads. The installation does not require admin rights unless you want to install the optional USB drivers.
- Connect the VMBUSB module to your computer using the included USB cable after installing Velbuslink, and start the program.
- Click on "New" (top left) to start the "Create a new project" wizard. Select **Next** for the following options: "Connect to an existing installation" and "Direct connection via cable".

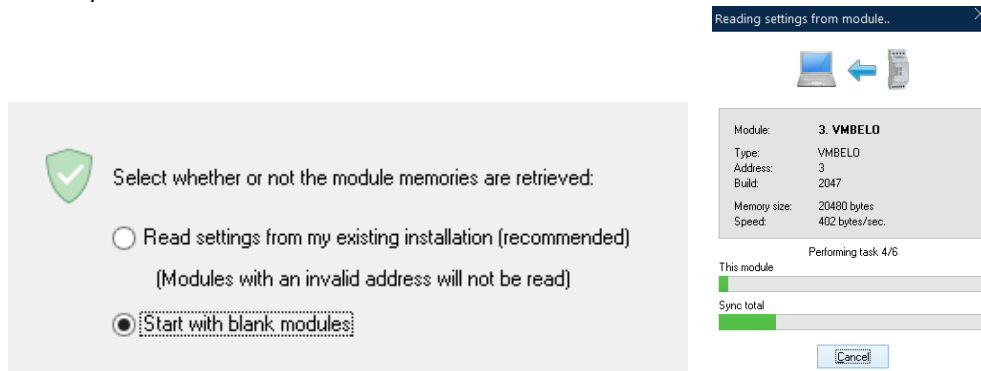


During the scanning of the installation, you may allow automatic address assignment.

Do not do this if you are reading an existing (functioning) installation.



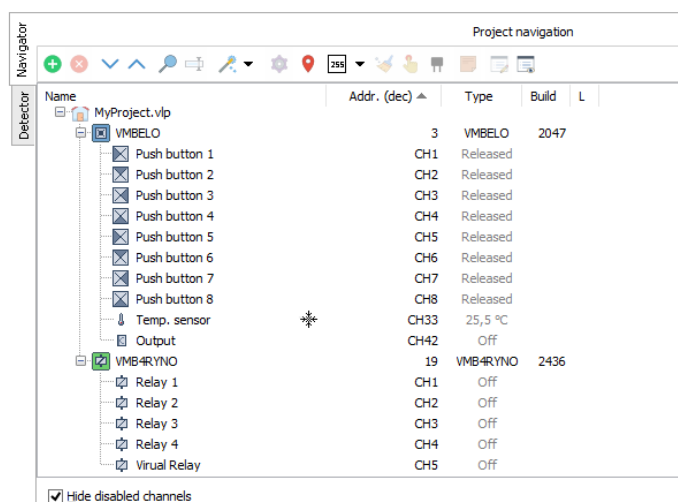
For a new project (as with this starter kit), you can choose to start with empty modules in this screen. For an existing (functioning) installation, first read all the settings. Depending on the size of the installation, this may take some time.



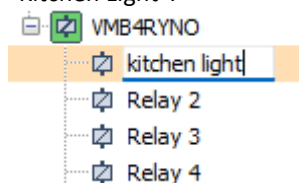
Once the reading process is complete, a confirmation message will appear, and you can start configuring.

Press Finish to start configuring your installation.

- In the navigation panel, you will now see both the VMBELO and VMB4RYNO modules. You can expand the channels of a module by clicking on the "+" symbol next to their names.



- Left-click on the name of the selected module or channel to rename it. For example, change "Relay 1" to "Kitchen Light".



- Drag “Button 1” from the VMBELO module to the VMB4RYNO module and drop it on Relay 1 (“Kitchen Light”). In the dialog box, select the action “Toggle” and press OK.

The screenshot shows the Velbus software interface with two modules: VMBELO (Address 3, Build 2047) and VMB4RYNO (Address 19, Build 2436). VMBELO contains eight push buttons (CH1-CH8) and a temperature sensor. VMB4RYNO contains five relays (CH1-CH5). A connection line is drawn from 'Push button 1' in VMBELO to 'Relay 1' in VMB4RYNO. A 'Move' button is visible next to Relay 1. To the right, the 'Action properties' dialog is open, showing the 'Initiator' as '3_VMBELO_Push button 1 (CH1)' and the 'Subject' as '19_VMB4RYNO_Kitchen light (CH1)'. The 'Action' list on the right includes 'Toggle' (0103), which is highlighted. Other actions include 'On' (0101), 'Off' (0102), 'Momentary (follow)' (0104), 'Start/stop timer' (0405), 'Non-restartable timer' (0407), and 'Restartable timer' (0412). A 'Show categories' checkbox is at the bottom.

- Press the  “Synchronize” button.

In the "Project Synchronization" window, check "Only changes" and press “Write”.

When the writing process is complete (this should only take a few seconds), you can now control Relay 1 (“Kitchen Light”) by pressing the left button (Button 1) on the glass control panel.

The 'Synchronize Project' window is shown. It has a 'List of available modules' table with columns 'Module', 'Type', and 'Build'. The table lists '3_VMBELO' (Type: VMBELO, Build: 2047) and '19_VMB4RYNO' (Type: VMB4RYNO, Build: 2436). On the right, there are 'Read' and 'Write' buttons with corresponding icons. Below the 'Write' button, the checkbox 'Only write changes' is checked. A 'Close' button is at the bottom right.

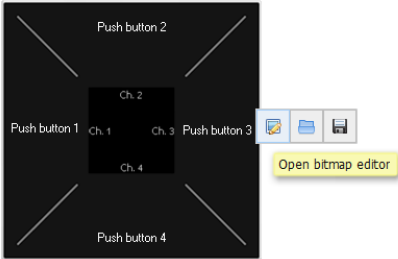
- To modify the text on the OLED screen, select the VMBELO module in Velbuslink and click on the gear icon (or press F6).

The screenshot shows the Velbus software interface with the VMBELO module selected. The 'Name' column shows 'MyProject.vlp' and 'VMBELO'. The 'Addr. (dec)' column shows '3'. The 'Type' column shows 'VMBELO'. The 'Build' column shows '2047'. The 'L' column is empty. The 'Push button 1' icon is highlighted with a gear icon, indicating it is selected for modification.

- In the configuration window, click the button “Create a new image” and add names and icons.

General Preferences Screensaver Button mode Sensitivity Feedback mode

Name	Response time
Button 1 Push button 1	Immediately ▼
Button 2 Push button 2	Immediately ▼
Button 3 Push button 3	Immediately ▼
Button 4 Push button 4	Immediately ▼



The configuration window also offers many other settings related to backlighting, navigation, screensavers, etc. Feel free to check the [product page](#) of the VMBELO module to explore the possibilities.

Do not forget to synchronize (save changes to the modules) before testing the changes you made.

Additional Information

On the website www.velbus.eu/downloads, you can find three important documents in the installation guide section: [the Hardware Installation Guide](#), [the Software Configuration Guide](#), and [the Troubleshooting Guide](#). We recommend reading these documents carefully to fully explore the capabilities of Velbus.



Troubleshooting

If the system is not functioning correctly, carefully check the wiring, ensure the terminators are configured properly and restart the installation (briefly interrupt the power supply).

If the problem persists, visit the support pages at www.velbus.eu or contact your Velbus distributor. Technical support is available via the Velbus ticket system: help.velbus.eu.

Warnings

Velbus products are intended for installation by a professional installer:

- All work must be performed on a de-energized installation.
- The installation must comply with the applicable regulations of your country.
- Follow proper workmanship practices.

If in doubt, contact your wholesaler.

Contact

Velbus is a Belgian brand developed and produced by Velleman Group NV in Gavere. With over 25 years of experience in the home automation market and 50 years of expertise in electronics development, we support professionals and makers in realizing their projects.

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