



# VE-Link

**WW-254X**

INSTALLATION MANUAL

# 1 Integration with Victron SmartShunt

When a WaterWorld system is installed and a Victron SmartShunt is used, these systems can be connected to each other via a VE-Link. The SmartShunt acts as a battery monitor and measures battery voltage and current. Based on these measurements, it calculates the battery's state of charge and the time remaining. In addition, it records historical data such as the deepest discharge and average discharge. By placing a VE-Link, all this data can be made visible on the WaterWorld display.

## 1.1 Installation of the VE-Link


### 1.1.1 Connect

Connect a VE-direct cable from the Smartshunt to the VE-Link's leftmost port (Consumer). The right port (Producer) can be used for daisy-chaining to other VE-direct devices.

RJ45 cables can be placed in the CAN (UTP) ports of the VE-link to make a connection to the motor controller and the display. Refer to the connection diagram below for the correct connections.

### 1.1.2 Configuration of the display

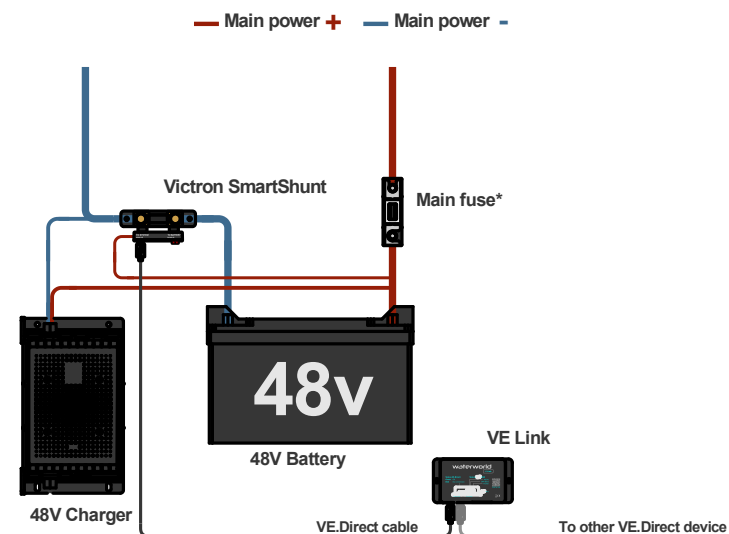
After all cables are connected according to the schematic, a setting in the display must be changed to make the read data visible.

- Go to the settings by swiping up from the main screen. Click on Settings and then on the Battery tab.
- Under "Mode," select "CAN."
- The save icon will now appear in the top right corner of the menu: . Click on this to save the new setting.

After completing these steps, the information from the SmartShunt will be displayed on the WaterWorld display, giving you easy access to all relevant battery data.

## 1.2 Connection diagram

Be sure to follow the correct connections according to the included connection diagram to ensure a correct connection between the VE-Link, the SmartShunt, the controller, and the display.



**CAUTION!** See the Victron SmartShunt manual on [www.victronenergy.nl](http://www.victronenergy.nl) to mount and set up the SmartShunt and how to use the VictronConnect app.

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## 2 LED Indications

LED on left side of housing: indicates the status of the connection to the SmartShunt.  
Green: the connection is good (data from the SmartShunt is received correctly). Red:  
There is a problem with the connection. Check that the VE-direct cable is properly  
connected and in good condition.

Green LED on the right (RJ45): this LED lights up continuously when the VE-Link is  
powered by the RJ45 cable.

Yellow LED right (RJ45): this LED flashes when data is transmitted via the CAN bus.

Green LED left (RJ45): this LED flashes when the VE-Link is active.