



VE-Link

WW-254X

INSTALLATION MANUAL

1 Integration with Victron SmartShunt

When a WaterWorld system is installed together with a Victron SmartShunt, both systems can be connected using a VE-Link. The SmartShunt functions as a battery monitor and measures battery voltage and current. Based on these measurements, it calculates the battery state of charge and remaining runtime. In addition, it stores historical data such as the deepest discharge and average discharge.

By integrating a VE-Link, data such as SoC (State of Charge), voltage, and current can be displayed on the WaterWorld display.

1.1 Installation of the VE-Link

1.1.1 Connection

Connect a VE.Direct cable from the SmartShunt to the left port (Consumer) of the VE-Link. The right port (Producer) can be used for daisy-chaining additional VE.Direct devices.


RJ45 cables can be connected to the CAN (RJ45) ports of the VE-Link to establish a connection with the motor controller and the display. Refer to the connection diagram below for the correct connections.

The VE-Link is powered through the CAN/RJ45 connection and does not require a separate power supply.

1.1.2 Display Configuration

After all cables have been connected according to the wiring diagram, a setting on the display must be changed in order to show the received data.

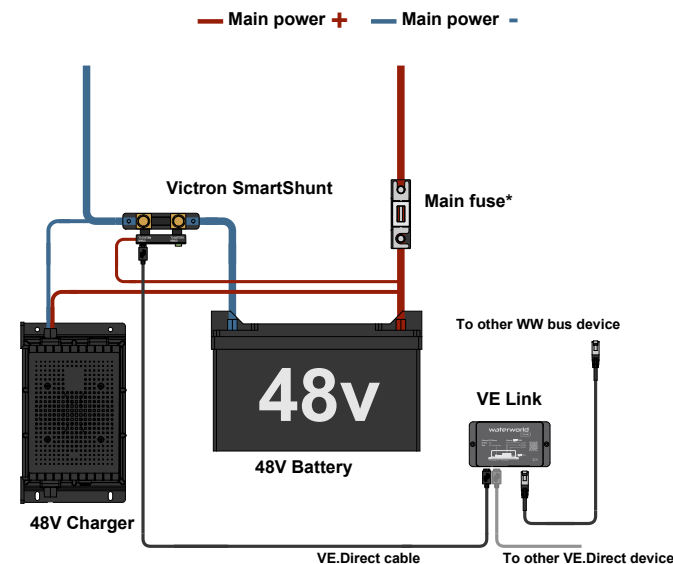
- Swipe up from the main screen to open the settings menu. Tap Settings and then open the Battery tab.
- Under "Mode", select "CAN".

- A save icon will now appear in the top right corner of the menu: . Press this icon to save the new setting.

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

1.2 Connection Diagram

Make sure all connections are made according to the supplied connection diagram to ensure proper communication between the VE-Link, the SmartShunt, the controller, and the display.



CAUTION! Refer to the Victron SmartShunt manual available at www.victronenergy.com for installation and configuration of the SmartShunt and for the use of the VictronConnect app.

The WaterWorld display uses the data provided by the SmartShunt. Incorrect settings or inaccurate measurements within the SmartShunt will result in incorrect information being shown on the WaterWorld display.

2 LED Indications

LED on the left side of the housing: indicates the status of the connection to the SmartShunt.

- Green: the connection is functioning correctly (SmartShunt data is being received properly).
- Red: there is a connection problem. Check whether the VE.Direct cable is connected correctly and is in good condition.

LEDs located underneath the RJ45 ports:

- Green LED on the right (RJ45): this LED stays on continuously when the VE-Link is powered through the RJ45 cable.
- Yellow LED on the right (RJ45): this LED flashes when data is transmitted over the CAN bus.
- Green LED on the left (RJ45): this LED flashes when the VE-Link is active.