WATERWORLD

Connect & Dashboard App

User manual

waterworld

electrify your world

New in this version:

Multiple systems in one network

With the new support for two WaterWorld systems within a single network, it is now possible to monitor both systems simultaneously.

Firmware-updates directly via the app

Perform firmware updates for connected WaterWorld products directly from the app. No laptop or additional tools needed on board.
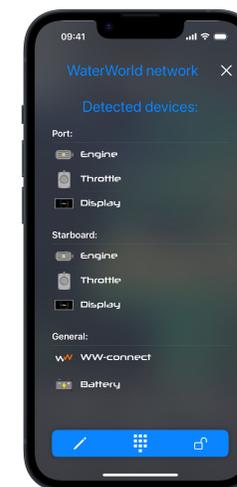
System configuration via de app

Configure the system via the app – from shaft direction to throttle settings and power limits, all within one clear and intuitive screen.

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1. First Setup

The WaterWorld Dashboard app allows users to wirelessly connect to their boat's electric drive system. The app provides real-time insight into system status, battery charge, boating behavior, and more. Additionally, users can modify system settings and perform firmware updates – directly via the app.

1.1 Requirements

- iPhone or iPad with iOS 16
- Bluetooth enabled
- Latest version of the 'Dashboard WaterWorld' app available for download from the App Store

1.2 Installation of the WaterWorld Connect

The WaterWorld Connect is connected via RJ45 cables. Installation can be done in two ways:
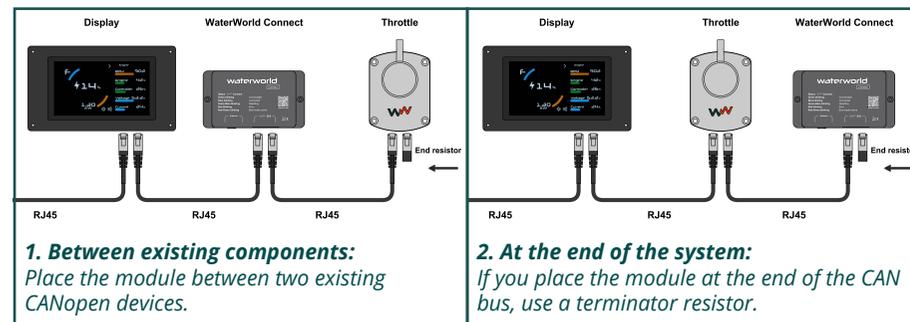
1. Between existing components:
Place the module between two existing CANopen devices.

2. At the end of the system:
If you place the module at the end of the CAN bus, use a terminator resistor.

1.3 Powering on and connecting the WaterWorld Connect

1. Powering on the WaterWorld Connect
- The WaterWorld Connect is automatically powered on as soon as the entire WaterWorld system is activated via the ignition switch.

2. Statusindicator (LED-lampje op de WaterWorld Connect)
- Flashing green light: The WaterWorld Connect is active and ready to connect.
- Flashing blue light: A smartphone or tablet is successfully connected to the WaterWorld Connect.

3. Connecting to your phone via the app
- Open the 'Dashboard WaterWorld' app
- Tap the settings icon (top left of the main screen)
- You will now enter the 'Device List' menu
  Here you'll see an overview of all detected WaterWorld Connect modules within range, as well as a simulator
- Select your WW Connect from the list to connect
- Enter the default PIN code: 123456

For optimal security, it is recommended to change the default PIN code immediately after installation.

2. Home Screen

Throttle position & compass– Displays the current heading and the position of the throttle

Device List / Settings – Access to the app's settings

Engine/Battery Overview – Overview of the motor and battery status

Map settings:
Button 1: Press once to zoom in on the position, press again to follow the compass heading.
Button 2: Toggle between satellite map and standard map.
Button 3: Show range indicator around the current position – Toggle between no display, only outbound trip, and return trip

Boost icon – Temporary power boost. (Available only on the 20.0i)

Power – Real-time power consumption of the system

SoC – Displays the State of Charge (battery level) of the battery

Range – Estimated range based on current speed and battery percentage

Time left – Calculated remaining runtime

Speed – Current speed

3. Overview Engine/Battery

3.1 Engine 1

The following information is displayed for engine 1:
- Power: Power in Watts/kW
- Speed: Speed in RPM
- Engine temp: Engine temperature in °C
- Controller temp: Controller temperature in °C
- Voltage: Voltage in volt
- Current: Current in ampere
- Phase: Phase current in ampere

3.2 Battery

The battery status displays:
- Capacity: Battery charge in percentage
- Power: Charging power or battery consumption
- Current: Charging current or consumption
- Battery 1-8: Temperature of each connected battery

3.3 Engine 2 (if applicable)

Displays the same data as for Engine 1 if a second system is connected.
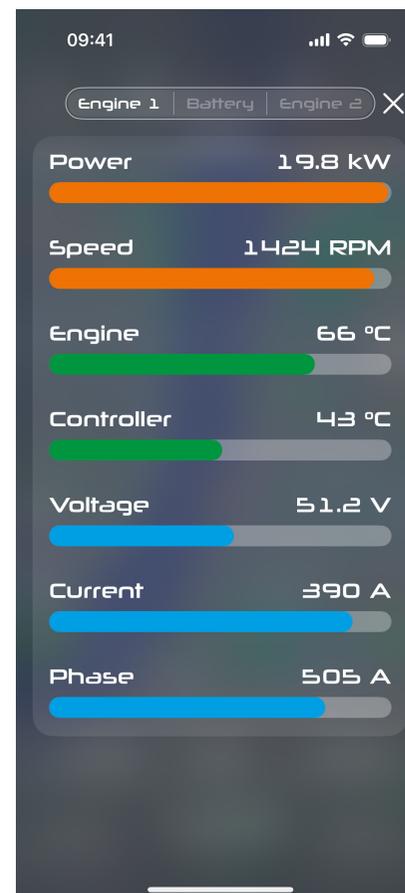
4. Device list / Settings

4.1 Device List

Display all WaterWorld Connect modules within range, as well as the simulator.

Red checkmark – Active connection with another mobile device, pairing not possible.

Orange checkmark – Active connection with this device.

4.2 Settings

Compass datasource: Choose whether to use GPS data from the phone or from the WaterWorld Connect module.

Unit for speed: Select the unit for speed (km/h, mph, knots).

Unit for distance: Select the unit for distance (kilometers, miles, nautical miles).

Scan WW network: Open the network overview showing all connected CANopen devices.
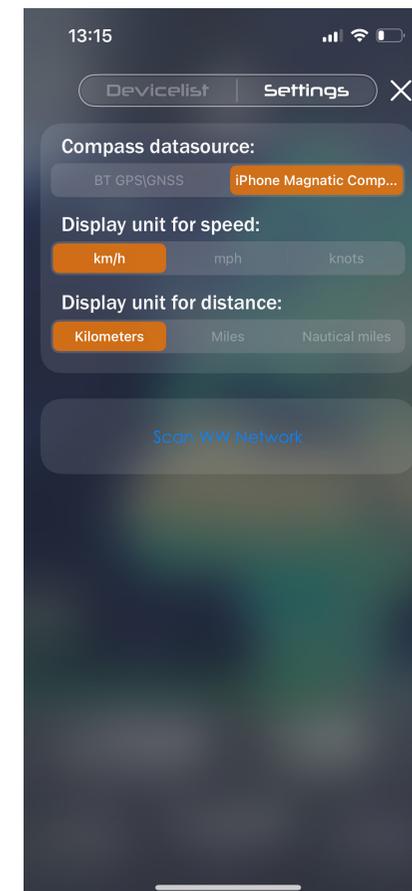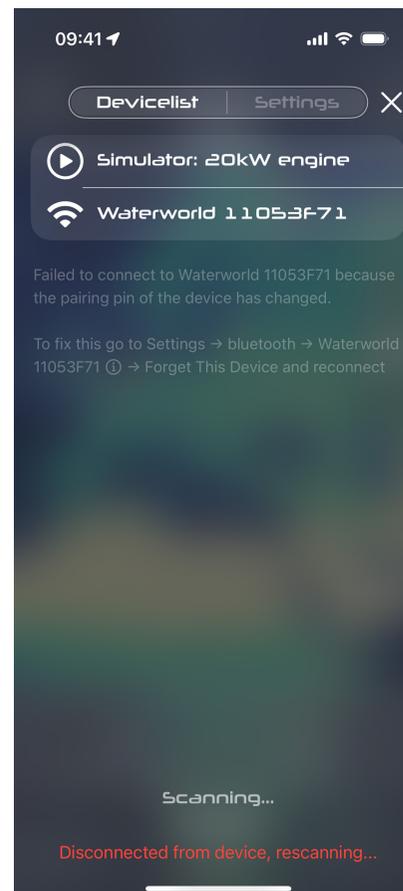
5. WaterWorld-Network

Through this page, you can view firmware versions and the status of connected devices, adjust system settings, and easily perform available firmware updates.

5.1 The network overview

The network overview can be accessed as follows:

1. Go to the Settings page
2. Tap on 'Scan WW Network'
3. A list of all devices within the CAN network will appear.

Not all devices showing? Refresh the list by swiping down.

Firmware: Current software version of the motor/controller.

Hardware: Information about the hardware version.

Motor Parameters: Contains version details of the motor control software.

Max Engine Power: This setting defines the motor's maximum power and can be adjusted as desired.

5.2 Software update

If an update is available, the option 'Update available' will appear.

Tap on 'Update' and follow the on-screen instructions.

Important: Do not power off the system during the update to avoid interruptions or potential damage to the device.

5.3 Throttle Configuration

Here you can specify whether the throttle lever is located on starboard (right) or port (left). This can be set for Throttle Lever 1 and – if applicable – also for Throttle Lever 2.

Note: Changes can only be made when the selected throttle lever is in neutral and the propeller has completely stopped.

1.1 Change device name
The pencil icon allows you to rename the WaterWorld network.

Change device name?

It is posible to change the name of the WW-connect from WaterWorld XXX to a user defined one.

The new device name may not be empty or longer then 19 characters.

Display

Change Device Name

Enter the new name for your device.

Rental 1

Cancel   Save

Display

Device Name Saved

The device name has been Saved successful, to see the changes please restart the device. Do you want to restart the device now?

No   Yes

1.1 Change pairing pin
The keyboard icon allows you to change the PIN code that must be entered to pair a mobile phone with the system.

Change pairing pin?

It is recomended to change the default pairing pin.

To a user defined one to prevent unauthorized access by a third parties.

Its not recomended to keep the default pairing pin.

Throttle

Change Pairing Pin

Pin

Confirm Pin

cancel   Confirm

Throttle

Display

WW WW-connect

Pairing Pin Changed

The pairing pin has been changed successfully.

OK
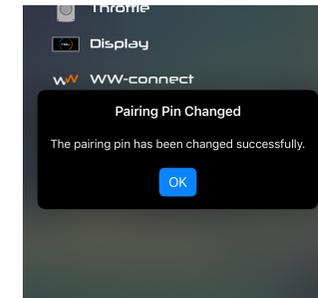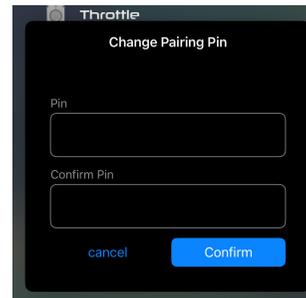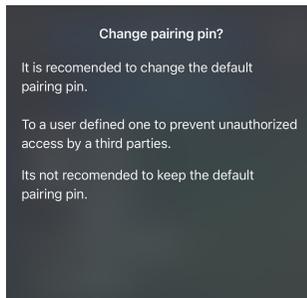
1.1 Lock WW connect:
The lock icon allows you to lock the settings of the WaterWorld Connect. This ensures that the system can still be read via the app, but no changes can be made.

Lock WW-connect

By locking the WW-connect the device is put in to read only mode.

This means that no changes to the WW-network can be made using the WW-connect, by devices that dont know the authorization code.

For end users it is not recomended to use this feature.

Throttle

Set Authorization Code

Pin

Confirm Pin

cancel   Confirm
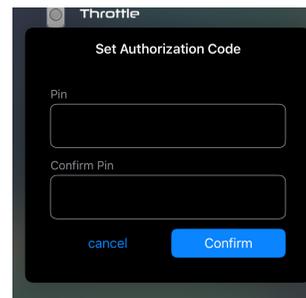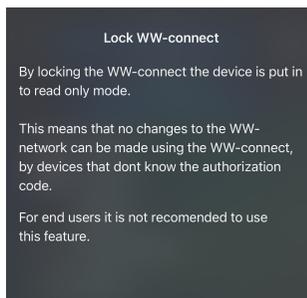
6. Frequently Asked Questions (FAQ)

"I don't remember my PIN code. What should I do?"

1. The WaterWorld Connect can be reset as follows:

2. Press and hold the button on the WaterWorld Connect for 5 seconds. This will reset the active Bluetooth connection. The LED light will briefly flash blue-green. Once the reset is complete, the light will start flashing green again.

3. Open the WaterWorld Connect app and try to reconnect

I can't see my system in the device list. What should I do?

1. *Check if the WaterWorld Connect is properly connected and the system is powered on.*

2. *Go to Settings > Scan WW Network to refresh the list.*

3. *Ensure you are within range of the network.*

   Note: The WaterWorld Connect will not initially appear in the standard Bluetooth overview of your mobile device. The device is only visible and can be connected through the Dashboard app.

The app shows an error when connecting. What should I do?

Error message: "Failed to connect to WaterWorld xxxxxx because the pairing pin of the device has changed."

Follow these steps to reconnect:

1. Go to Settings > Bluetooth on your phone.

2. Locate the device WaterWorld xxxxxx.

3. Tap the i icon and select Forget this device.

4. Reconnect through the Dashboard app.