User manual

ver. 1.0

REEF FACTORY

Level sensor

Thank you for purchasing our device

ENGLISH

www.reeffactory.com

Table of contents

! **IMPORTANT INFORMATION:** The Level sensor is not completely waterproof. Do not submerge the upper part of the device in water, where the electronic control system is located. Immersion of the device may cause permanent damage.

! **IMPORTANT INFORMATION:** Before setting up and using the device, read the entire manual carefully. In the content of the manual, there may be slight differences between what is presented on the screen of the device and the descriptions in the manual. This manual contains information about the features of a device with the latest firmware version installed. The firmware version is always displayed in the bottom right corner of the screen, below the product serial number. If your firmware version is older, update your device firmware to access the latest features. Apart from the Level sensor itself, the package contains the following elements: a dedicated power supply unit, dedicated fastening system, a magnet that can be used to reset the device and an abbreviated manual.

? **Do you need our help? Write to support@reeffactory.com**

ATTENTION: UNPACKING

During transportation, protective packaging was used to protect the appliance against any damage. After unpacking, please dispose of all elements of packaging in a way that will not cause damage to the environment. All materials used for packaging the appliance are environmentally friendly; they are 100% recyclable and are marked with the appropriate symbol. Caution! During unpacking, the packaging materials (polythene bags, polystyrene pieces, etc.) should be kept out of reach of children.
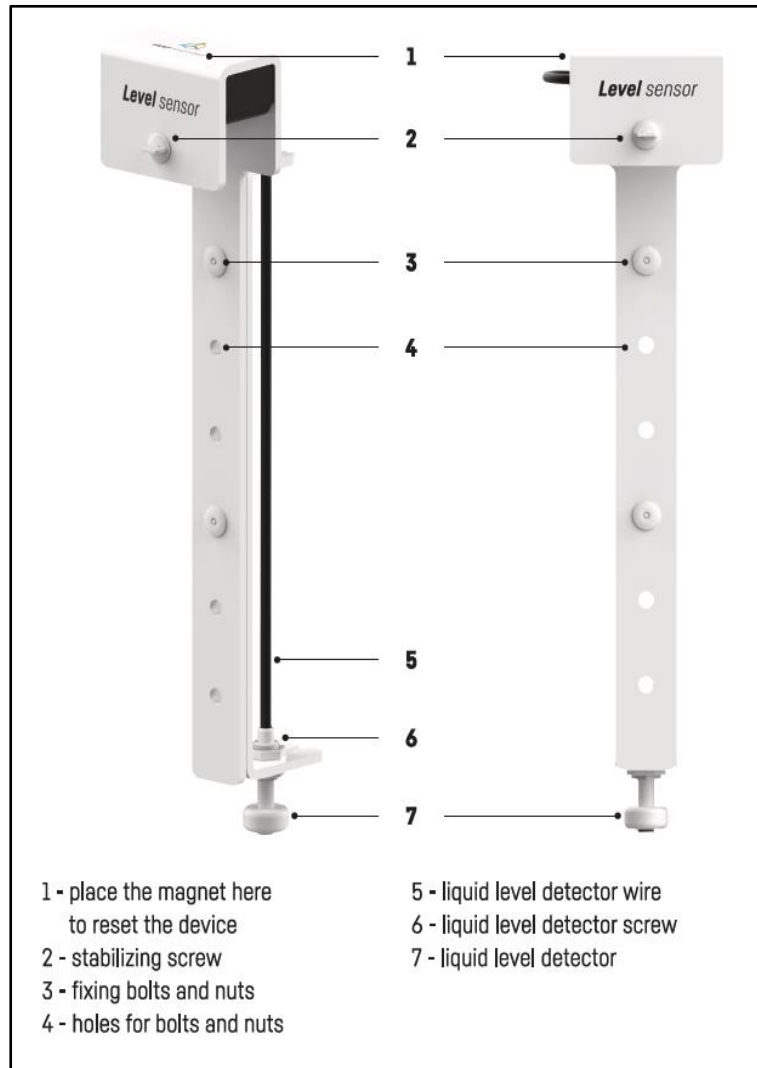
ATTENTION: DISPOSAL OF THE APPLIANCE

Old appliances should not simply be disposed of with normal household waste, but should be delivered to a collection and recycling centre for electric and electronic equipment. A symbol shown on the product, the instruction manual or the packaging shows that it is suitable for recycling. Materials used inside the appliance are recyclable and are labelled with information concerning this. By recycling materials or other parts from used devices you are making a significant contribution to the protection of our environment. Information on appropriate disposal centres for used devices can be provided by your local authority

I.   Initial Level sensor configuration.

In order to set up the device correctly, follow the steps below.

1. Install the Level sensor in the tank and position the float holder on the desired height. The float is installed in the bottom part and the top part holds the wire. Make sure that the float works smoothly and can move freely according to the water level.

2. The picture below shows how to assemble the device correctly.

1 - place the magnet here to reset the device
2 - stabilizing screw
3 - fixing bolts and nuts
4 - holes for bolts and nuts
5 - liquid level detector wire
6 - liquid level detector screw
7 - liquid level detector

3. Gently tighten the stabilizing screw. Try not to use too much force, as the elements of the device are made of plastic and their resistance to mechanical stress is technologically limited.

IMPORTANT INFORMATION: The Level Sensor is not completely waterproof. Do not submerge the upper part of the device in water, where the electronic control system is located. Immersion of the device may cause permanent damage.
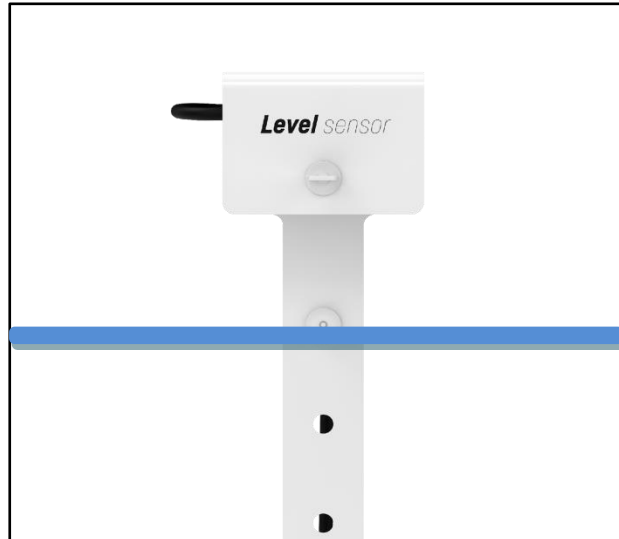
4. Connect the device to the power supply unit. When the device starts working, you will hear a short sound.

5. The device can be set up via a browser on a computer, laptop, tablet or smartphone. To do so, you'll first need to view the list of Wi-Fi networks available on the device. Then connect to the network with a name corresponding to the serial number of your device, in accordance with the following pattern: **RFLSXXXXXXXXXXXX**. Our device is compatible with 2.4 GHz networks.

6. To log in, enter the following password: **reeffactory**

7. Open an Internet browser on the same device and type the following address in the "website address" field: **www.levesensor.io**
   If you entered the address correctly and you see the following message, it means that a connection with the device couldn't be established, and the connection with your home Internet network (wired or wireless) is still active.

This domain is used to configure **Smart Reef** device.
If you see this text it means that you are not logged properly into device Wi-Fi.

Please connect to the Wi-Fi device only (Wi-Fi password is *reeffactory*) and refresh this page.
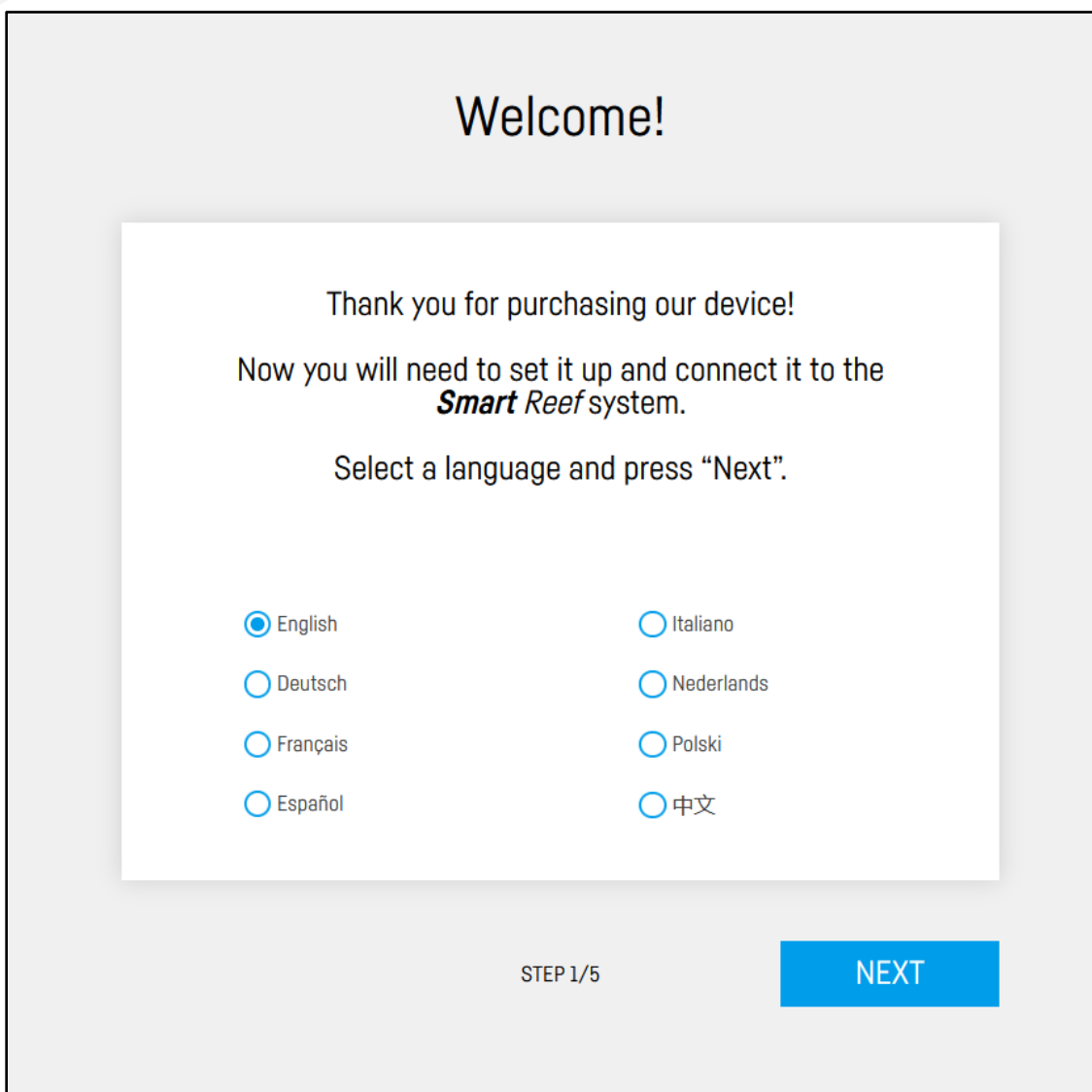
REEF FACTORY

Try to reconnect to the device and repeat the steps described above.

II.   Level sensor operation configuration.

Set up your device in five simple steps.

**Step one** - choose the language you want to use when using the device.

Step two - set up the device parameters. Specify whether the device should detect if the liquid level is too low or too high, and set the device to generate sound alarm if the Level sensor detects low/high water level.

Step three - connect the device to your home Wi-Fi network. Select the network from the list of available networks and If the network is secured, enter the password that protects your home network against unauthorized access.
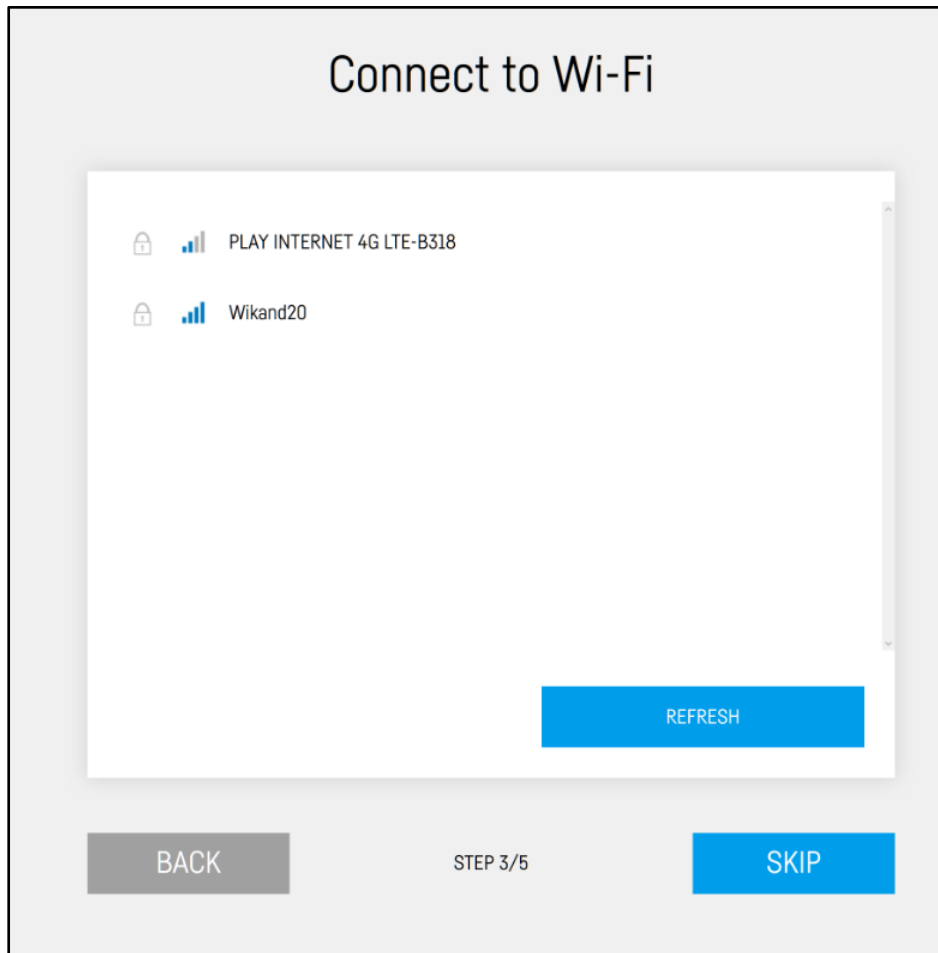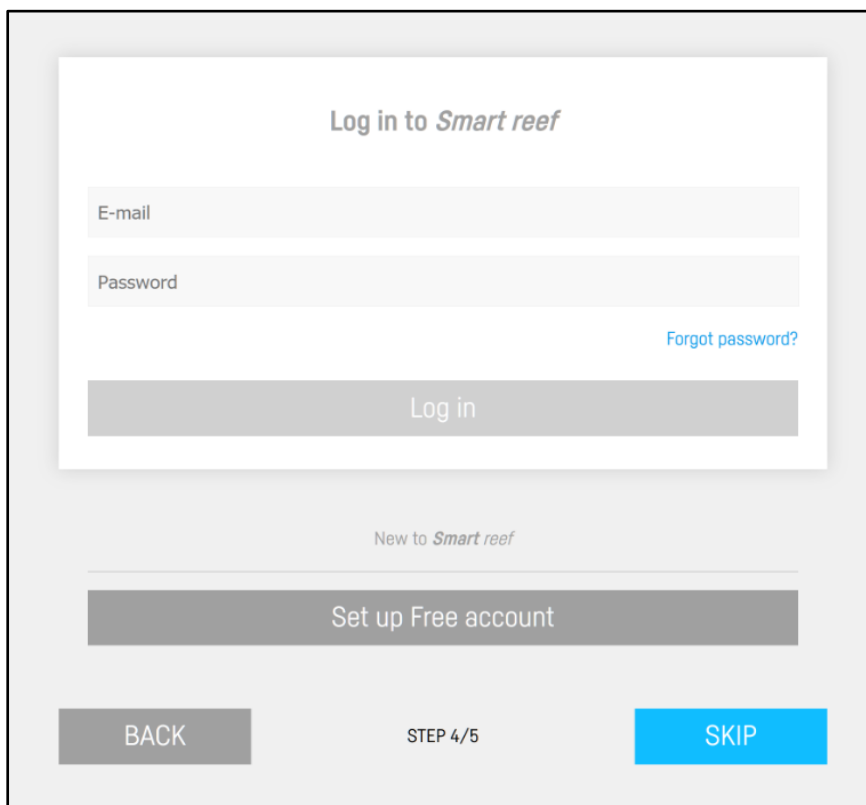

If the device cannot connect to your home Wi-Fi network at first, repeat the procedure. Successful connection may depend on the type of network device you use and its manufacturer. The signal of your wireless network should be as strong as possible. Remember that in order to enable communication with the **Smart Reef** system, the network device you are trying to connect has to have Internet access.

When the **Level sensor** successfully connects to your Wi-Fi network, its IP number will appear in the upper left corner of the screen. The appearance of the IP number means that the connection has been established.
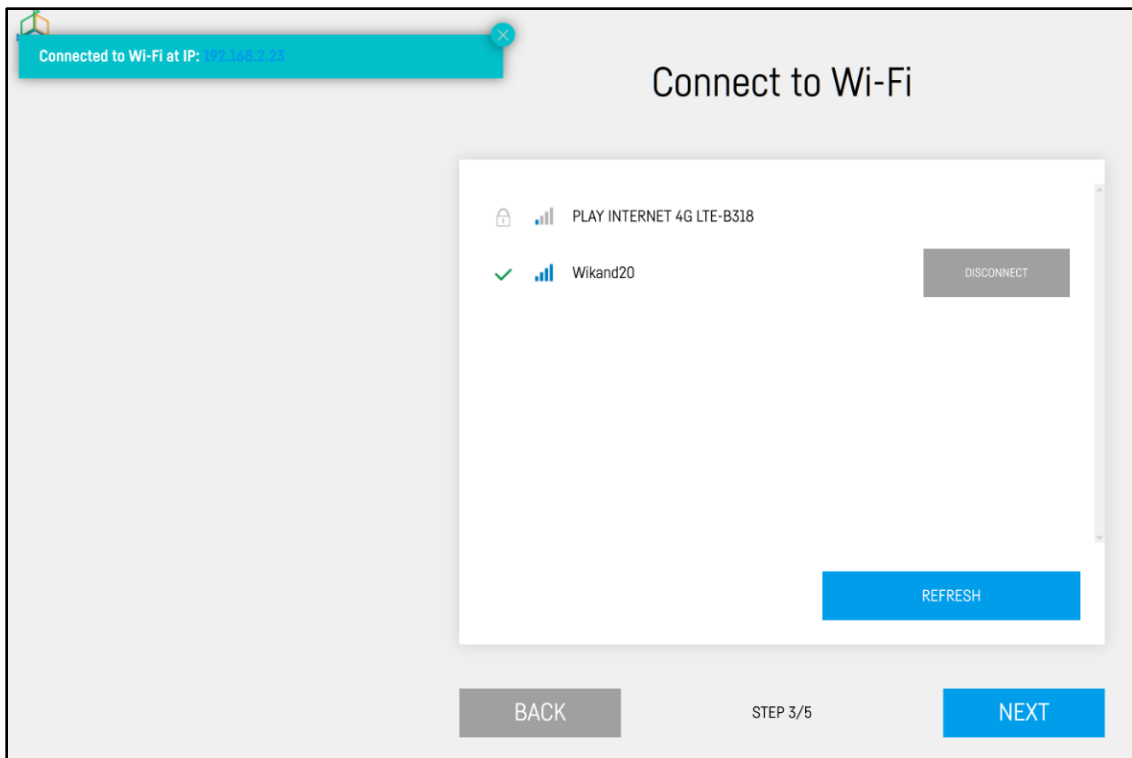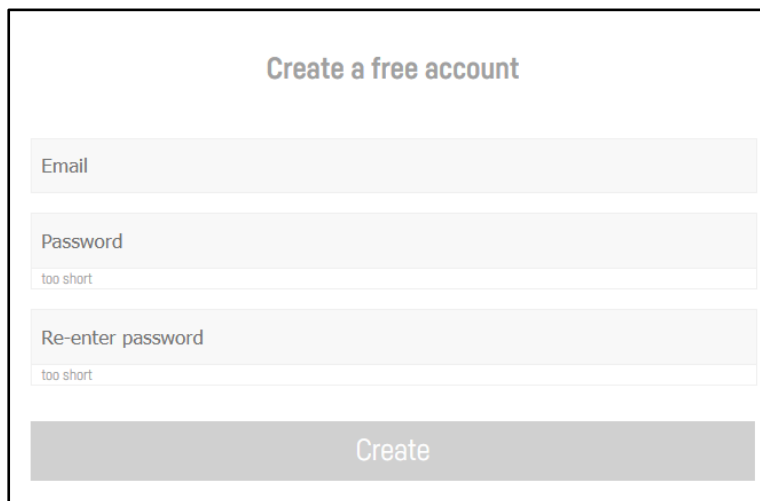
Step four - create a free Smart Reef account by pressing the "Create a free account" button. Please note that in order to do so, you will need to connect to a wireless Internet network and not to the device itself.

If you already have a Smart Reef account, enter your login credentials to add your new device to the system.

!   **Your account password should be appropriately complicated and difficult to crack.**

If you already have a **Smart Reef** account, enter your login data to add your new device to the system. If you don't need to manage your device remotely, you may ignore this step. However, by doing so you will miss out on several additional features, such as access to device updates.

Step five - congratulations, you have successfully set up your **Level sensor**.

Thank you!

Congratulations, you have just set up your device!

If you have connected your device to your Smart Reef account, change the network to your Wi-Fi home network. Then log in to your Smart Reef account and use the device.

BACK   STEP 5/5   FINISH
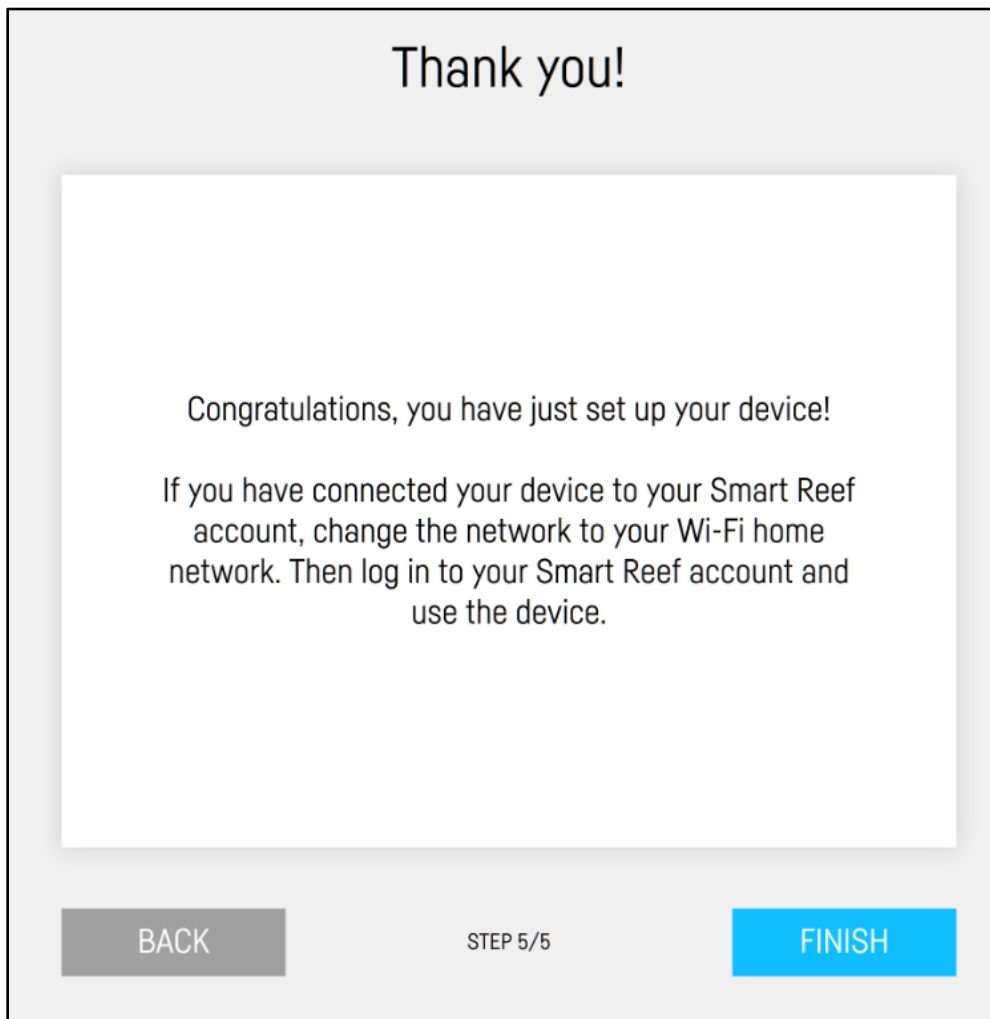
After the setup procedure is finished (after pressing the "FINISH" button), the screen will display the current status of your device.

CURRENT LEVEL

Below

Alarm when liquid is

⦿ Below   Above ◯

Sound alarm is

⦿ On   Off ◯
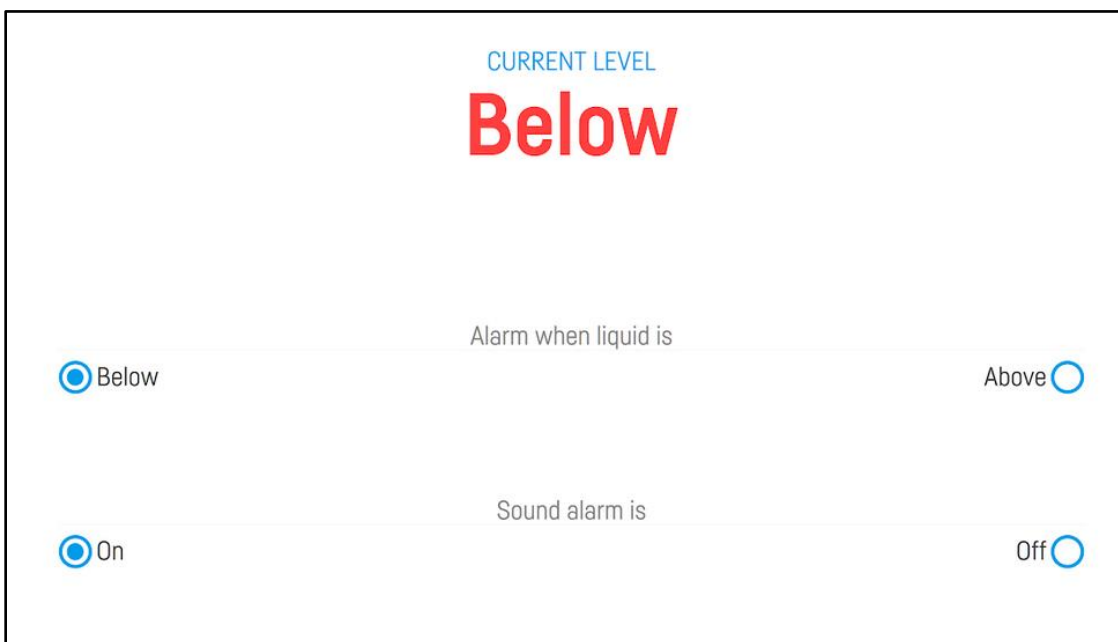
In the upper right corner of the screen you will find a drop-down menu icon. There you can introduce any necessary changes or repeat the device setup procedure. It also contains additional functions, including options for Wi-Fi network management, device network password, which protects your device against any unauthorized remote access, **Smart Reef** account management, time and date setting, language 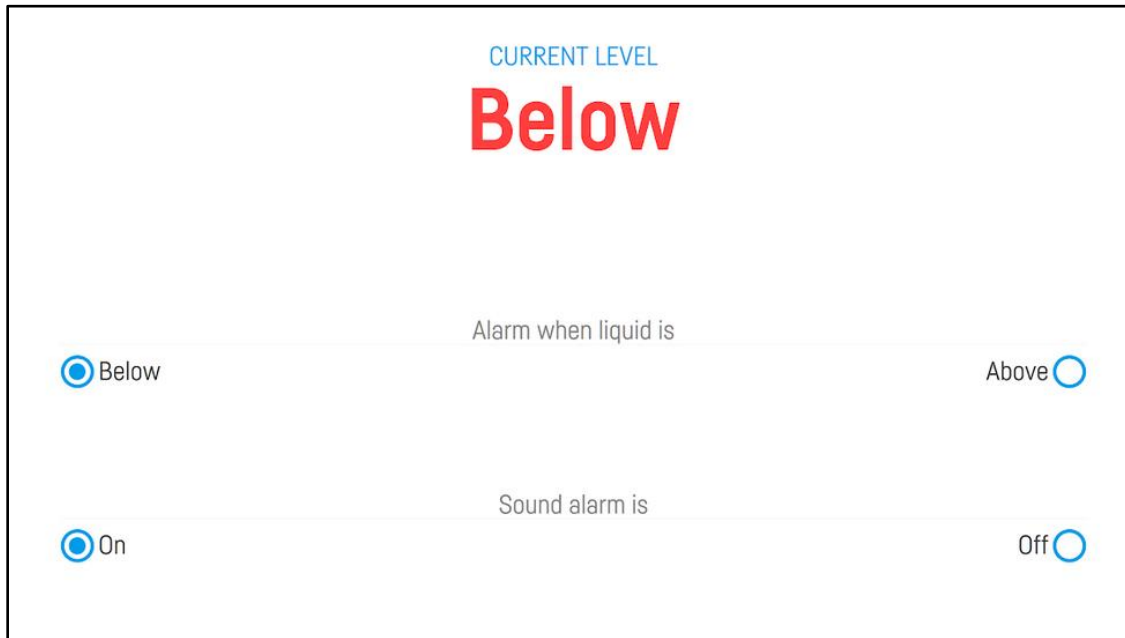selection and the possibility to restore your device to default settings. Moreover, the icons indicate the current status of connection to your wireless network and to the **Smart Reef** system.

WI-FI   ! SMART REEF   RESET   POLSKI
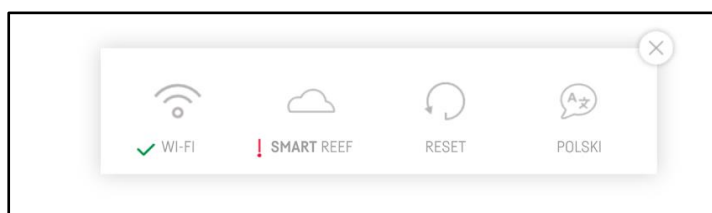
The ✓ symbol means that the connection is OK, while the ! symbol means that there is no connection.

III. Level sensor operation mode.

As a default, the level sensor is pre-set to detect low liquid levels. You can change it at any time in the device configuration.

If you do not have a **Smart Reef** account set up yet, it is recommended to leave the audible alarm on.

IV.   Reseting the device.

If your device does not work properly, or you want to repeat the setup procedure, or you cannot connect to it despite several attempts, you may restore it to its default settings by placing a magnet (included in the package) on the top part of its housing.
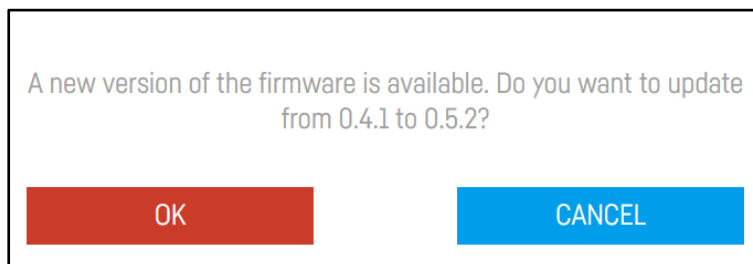
> ?   Place the magnet in the indicated place near the **Reset** sticker.
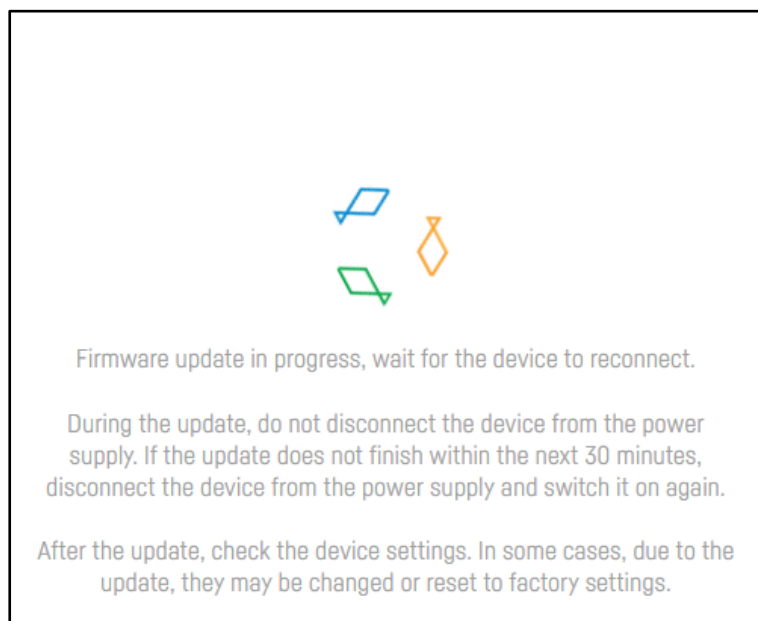
V.   SMART Reef System.

Connect to your Internet network via a computer or a mobile device. Next, go to www.reeffactory.com and log in to your **Smart Reef** account. Check, if your device has been properly added to the list of your devices. You can change its name and assign it to one of your aquariums. The serial number of your device and its firmware version are displayed in the lower right corner of the screen. Our devices are SMART; therefore, we constantly improve them. From time to time, you will receive information about firmware updates that will introduce new features and make your device work even better.

Notice the icons located in the upper right corner of the screen. They allow you to change the date and time, language, view the history of notifications registered by the device, contact us and access many more interesting features offered by the device.

If the update was released for your device and it's ready to be installed you will see an exclamation mark next to one of your device's icons. You will be prompted with the window below.

A new version of the firmware is available. Do you want to update from 0.4.1 to 0.5.2?

OK   CANCEL

By pressing the OK button you will start the automatic device update process.

Firmware update in progress, wait for the device to reconnect.

During the update, do not disconnect the device from the power supply. If the update does not finish within the next 30 minutes, disconnect the device from the power supply and switch it on again.

After the update, check the device settings. In some cases, due to the update, they may be changed or reset to factory settings.

? Additional and up-to-date information about the device, its operation and setup can be found at our website www.reeffactory.com in the relevant product tab.

VI.   Technical problems and possible causes of their occurrence.

The table presents problems that you may encounter while using the device, together with a suggestion of how to eliminate them yourself.

? Problem	! Possible cause	Solution
The device does not power on and does not broadcast Wi-Fi signal	No power	Check if the power cord is properly connected to the socket. Then, use the magnet to bring the device to the factory settings. Check if the problem has been resolved.
Can't log in to the device	No direct connection between the lamp and your phone/computer	Check if your computer or phone is connected to the device's network. Sometimes it automatically connects back to your home network. Check if the problem has been resolved.
The device is not visible in the Smart Reef	The device has not been properly connected to your home network or is not logged in to the Smart Reef	Log in to the device and check if the Smart Reef and Internet status icons are displaying that the device is properly connected. If they are not, please log in to your account or connect the device to your home network.
The device loses the connection to the Smart Reef	The range of your home network is not sufficient	Remember, that your home network can have different signal strength in different rooms. It could be too low in the vicinity of the device. Try to move the device closer to your router or use a repeater to extend your home network range in the area. Check if the problem has been resloved.
The device does not broadcast Wi-Fi or you can't log into the device.	The device may require factory reset	Put the magnet against the designated spot marked with the RESET sticker. Wait for 5 seconds and then try to find the device's network on the list. Connect with the device.

! If the above solutions didn't help resolve your problem, please contact us at support@reeffactory.com and describe your problem. Additional and most recent information about the device, its service and configuration can always be found on our webpage www.reeffactory.com in the product tab.

REMEMBER. If you don't have the skills, knowledge and experience, never perform any repairs to the device on your own. The device is powered with a voltage of 110V-230V. Working with voltage may cause electric shock, loss of health and even loss of life. Servicing has to be done by qualified technicians.