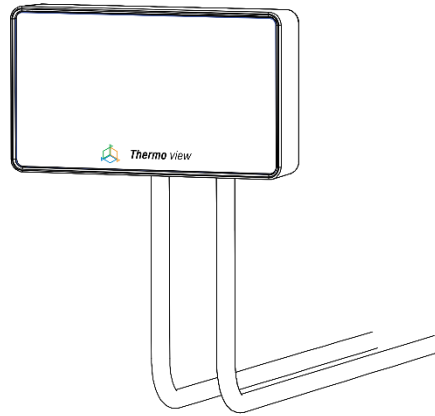




User manual

ver. 1.4



Thermo view

Dear customer, thank you for your purchase.



ENGLISH

www.reeffactory.com



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ATTENTION: Thermo view is not waterproof. Avoid submerging the device in water. Submerging the device's display in water may cause permanent damage to the device. There is a risk of electric shock.



ATTENTION: Read the manual carefully before use. There might be slight differences between this manual and what is presented on the screen. This manual contains information about the device functions that operate with the latest firmware. Information about the firmware version installed on the device is always displayed in the lower right corner above the serial number. If the device version is older, please update the device firmware to get access to the latest features. Included with the device are: dedicated power adaptor, sensor holder, magnet for resetting the device and quick start guide.



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.

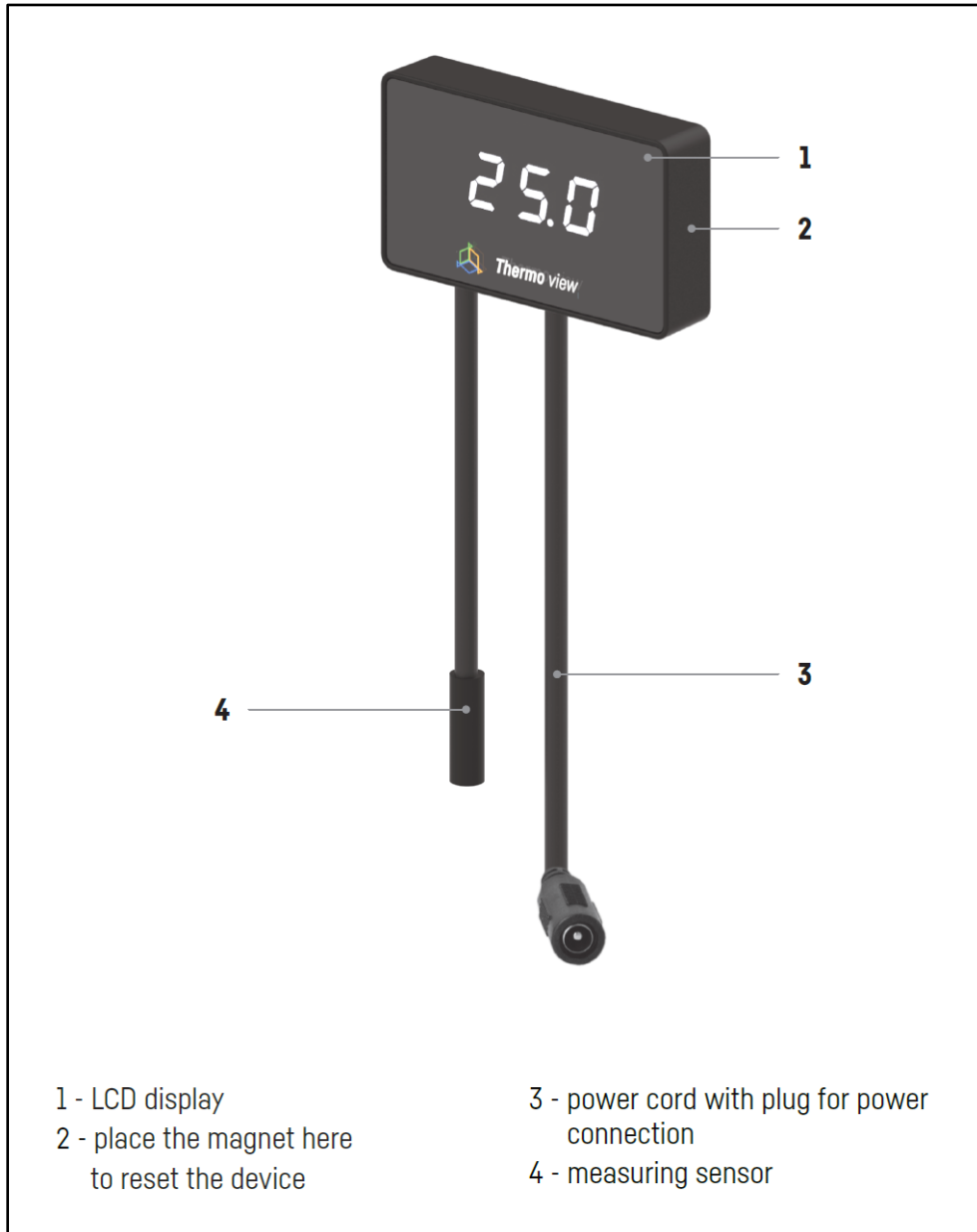
**ATTENTION: DISPOSAL OF THE APPLIANCE**

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 configuration

To configure the device properly, please follow the instructions below.

1. Install temperature sensor in the tank in a way that allows for accurate temperature measurement. Make sure that the sensor is not in close proximity to, for example, the heating element.
2. To properly install the device familiarize yourself with the graphic below.



Plug the device to power using dedicated power supply. When the device is ready you will hear short sound and the actual temperature will be shown on the display.



ATTENTION: Thermo view is not waterproof. Avoid submerging the device in water. Submerging the device's display in water may cause permanent damage to the device. There is a risk of electric shock.

3. The device can be configured using a browser on your computer, laptop, tablet or smartphone. To do this, open the list of available Wi-Fi networks and find the network that name corresponds with serial number of the device, for example: **RFTVXXXXXXXXXXXX**. Our device works with 2,4 GHz bandwidth. To log in use password: **reeffactory**
4. When you are connected to the device's network open your browser and go to www.thermview.io
If you see the message below after you've entered the correct address in the address bar it means that you may be still connected to your home network (wired or wireless)

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.



Try to connect with the device one more and repeat the procedure.

II. Operation mode configuration

Configure the device in five simple steps.

Step one – chose language which you would like to use.

Welcome!

Thank you for purchasing our device!

Now you will need to set it up and connect it to the **Smart Reef** system.

Select a language and press “Next”.

English Italiano

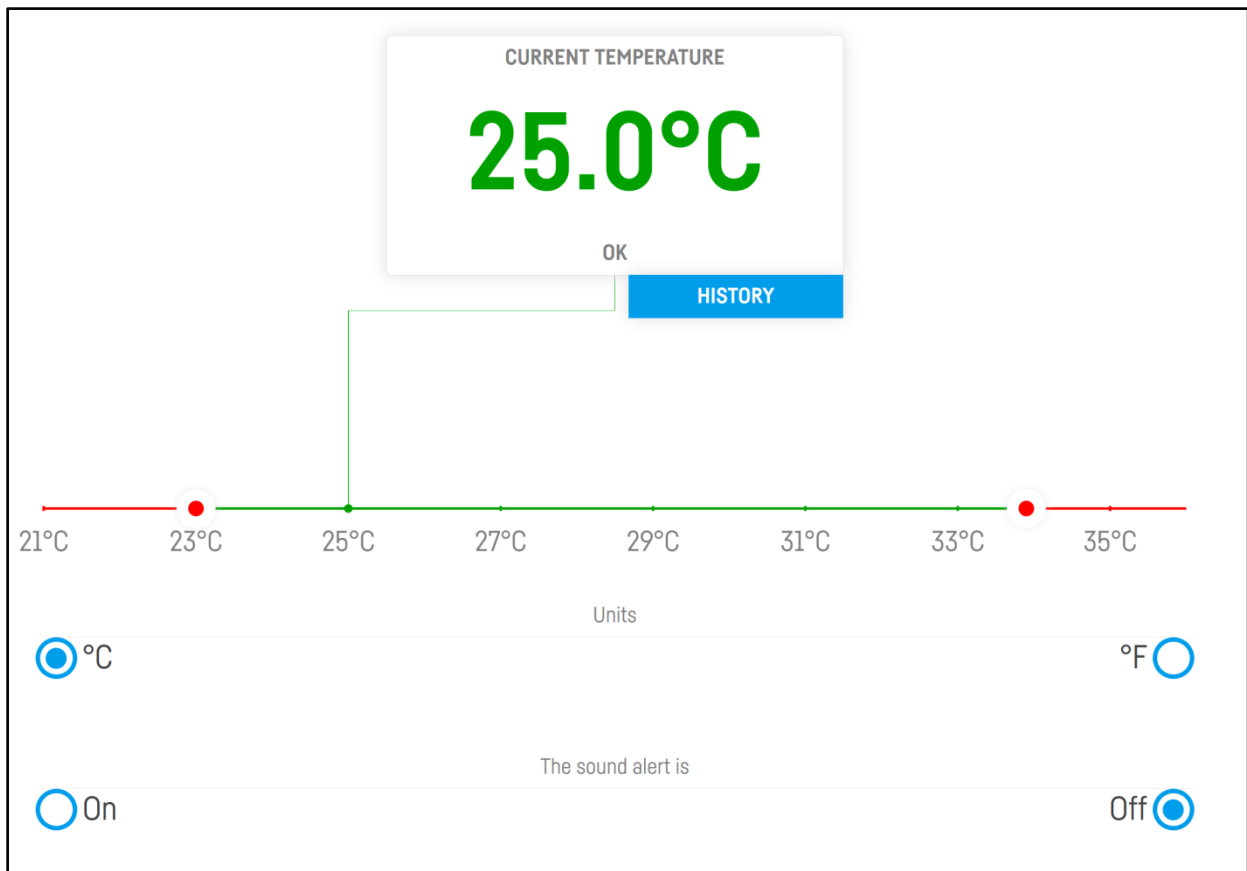
Deutsch Nederlands

Français Polski

Español 中文

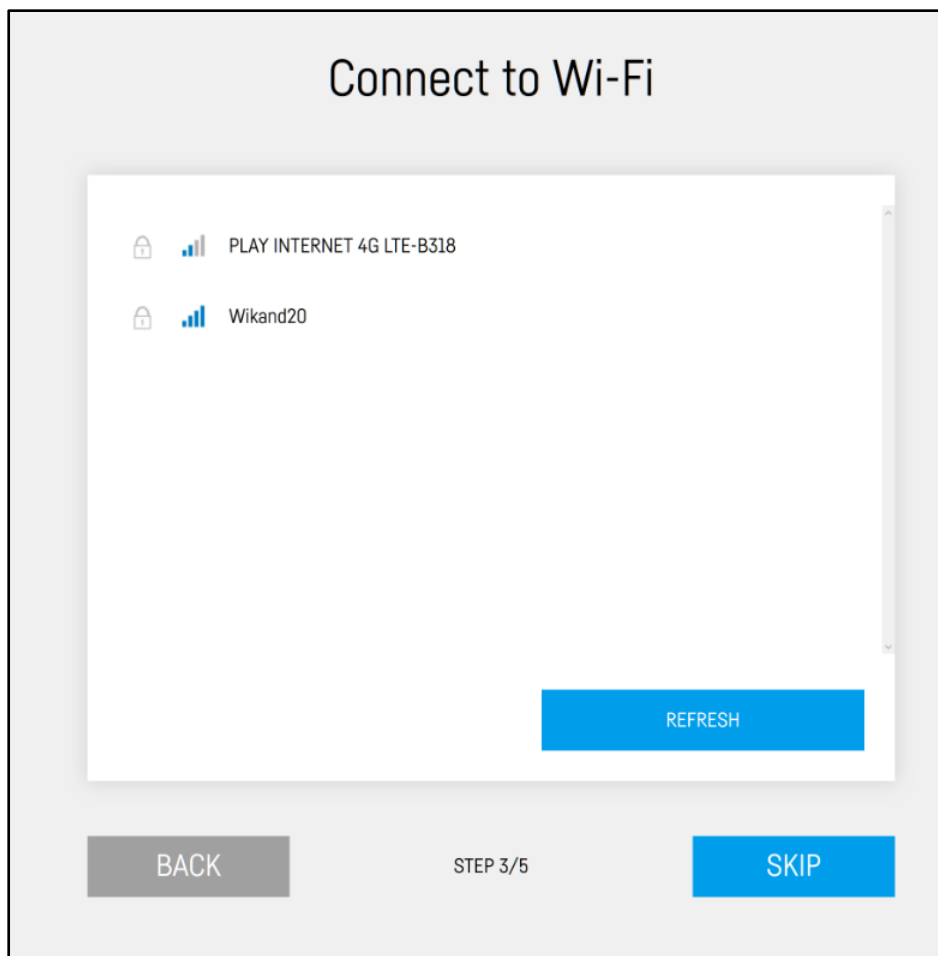
STEP 1/5 **NEXT**

Step two – configure the temperature limits. First, chose the temperature unit below the temperature scale. Now, „grab” the red sliders and move them to the desired temperature. You can also turn on/off the sound alarm which starts when the temperature is exceeded.



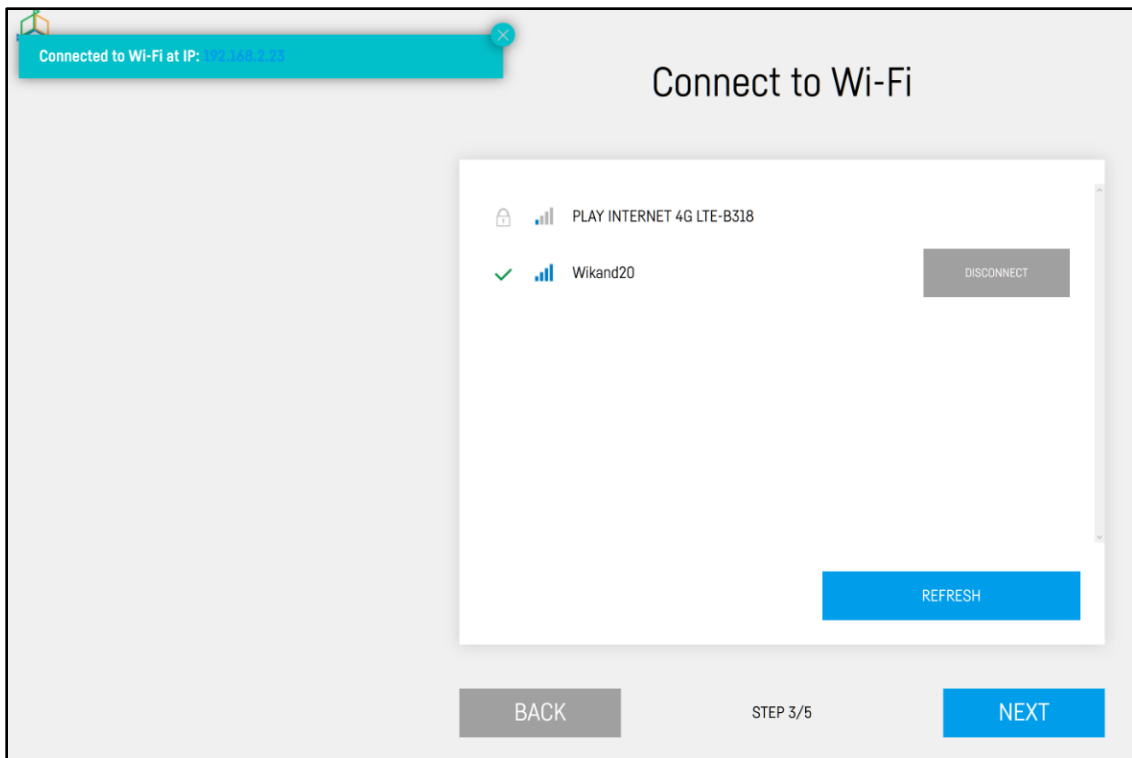
When the temperature exceeds the limit (default is 23°C and 27°C) Thermo view will send a notification to your devices letting you know. If the sound alarm is turned on it will start audible alarm as well.

Step three - connect the device to your home Wi-Fi network. 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 which is connected to **Thermo view** needs to have Internet access.

When the **Thermo view** 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 everything is alright.

Step four – register free Smart reef account by pressing the “Create free account” button.

The screenshot shows a web interface for logging in to Smart Reef. At the top, it says "Log in to Smart reef". Below this are two input fields: "E-mail" and "Password". To the right of the password field is a link that says "Forgot password?". Below the input fields is a grey "Log in" button. Underneath the login section, it says "New to Smart reef" and there is a large grey button labeled "Set up Free account". At the bottom of the page, there are three buttons: a grey "BACK" button on the left, "STEP 4/5" in the center, and a blue "SKIP" button on the right.

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

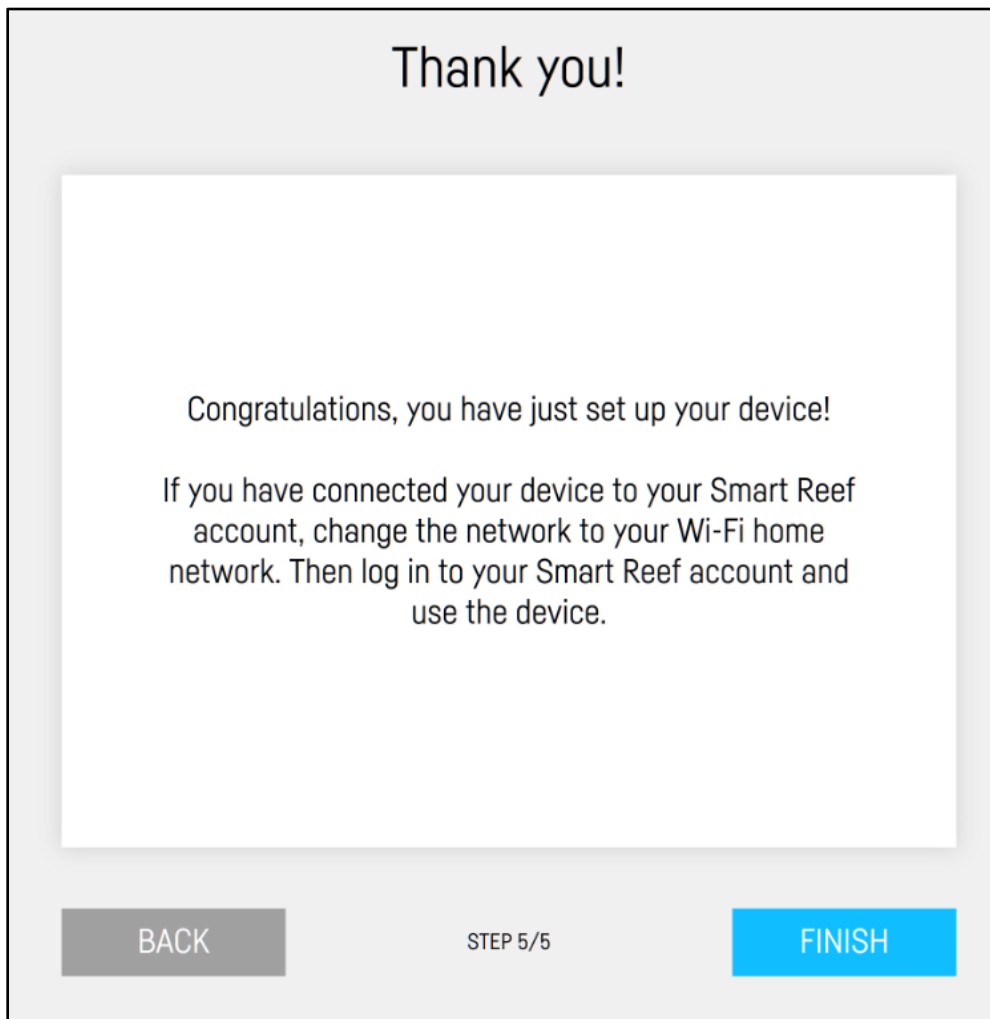
The screenshot shows the "Create a free account" page. It has three input fields: "Email", "Password", and "Re-enter password". Below the "Password" field, there is a red error message that says "too short". Similarly, below the "Re-enter password" field, there is a red error message that says "too short". At the bottom of the form is a large grey "Create" button.



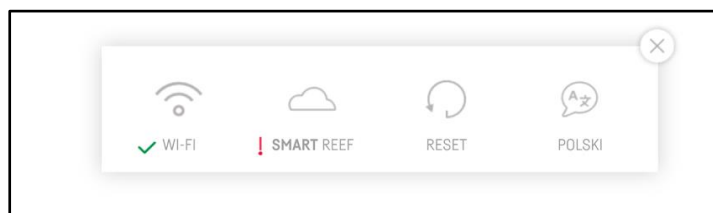
Your account password should be appropriately obscure and difficult to crack.

This way, you will be able to operate the device remotely and access its additional functionalities. If you already have a **Smart Reef** account, enter your login data to add another device. 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 **Thermo view** device.

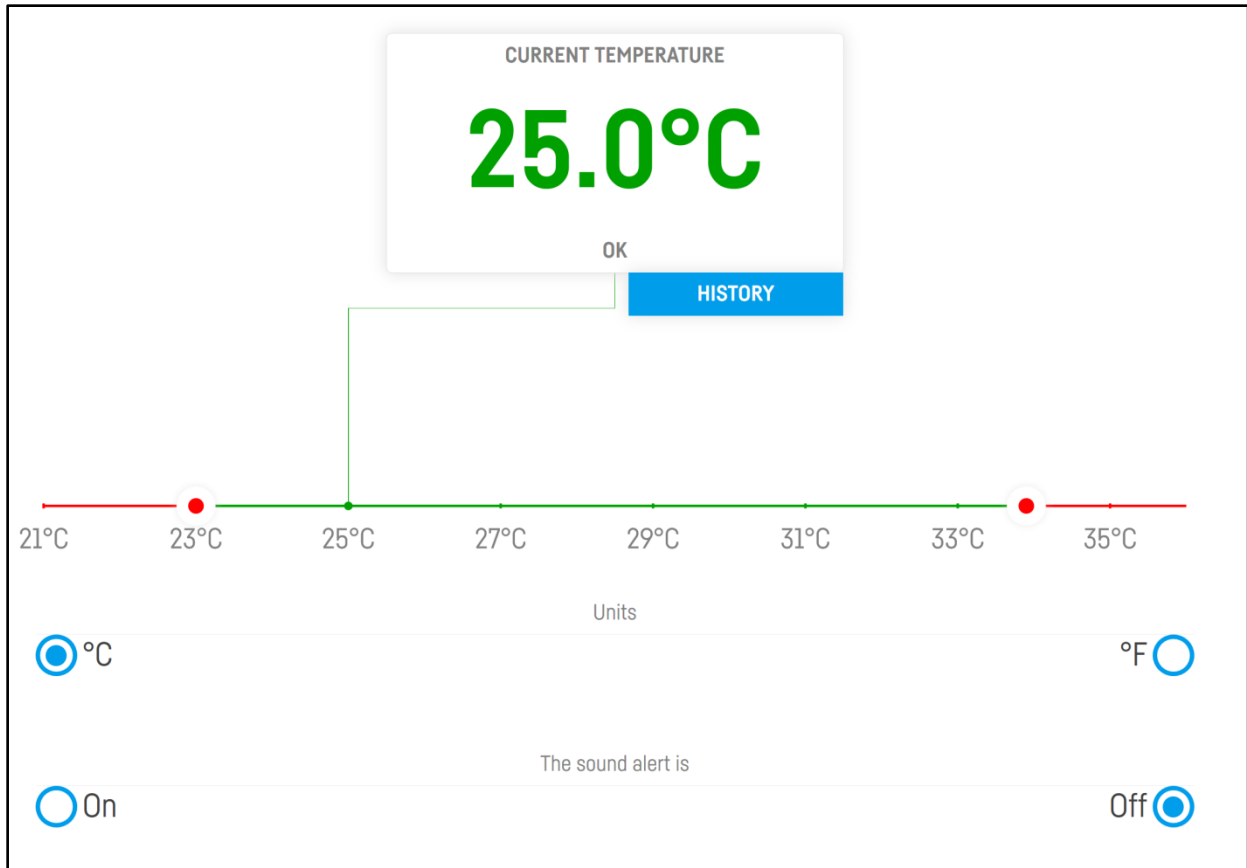


Notice the icons located in the upper right corner of the screen. They make it possible to change the date and time, language, view the history of notifications registered by the device, contact us and access many more interesting features offered by the device.



✓ symbol means that the device is connected while ! means there is no connection.

After the setup procedure is finished (after pressing the “FINISH” button), the screen will display the current status of your device as well as additional options.



III. Temperature calibration

Temperature measuring devices available on the market differ in sensor design and the accuracy of the measurement, that is why the results from different devices may be inconsistent. If you want the value of temperature to be shown exactly as it is on your other devices you can perform calibration which adjusts the temperature readout. This function can be used to increase the accuracy of the measurement.



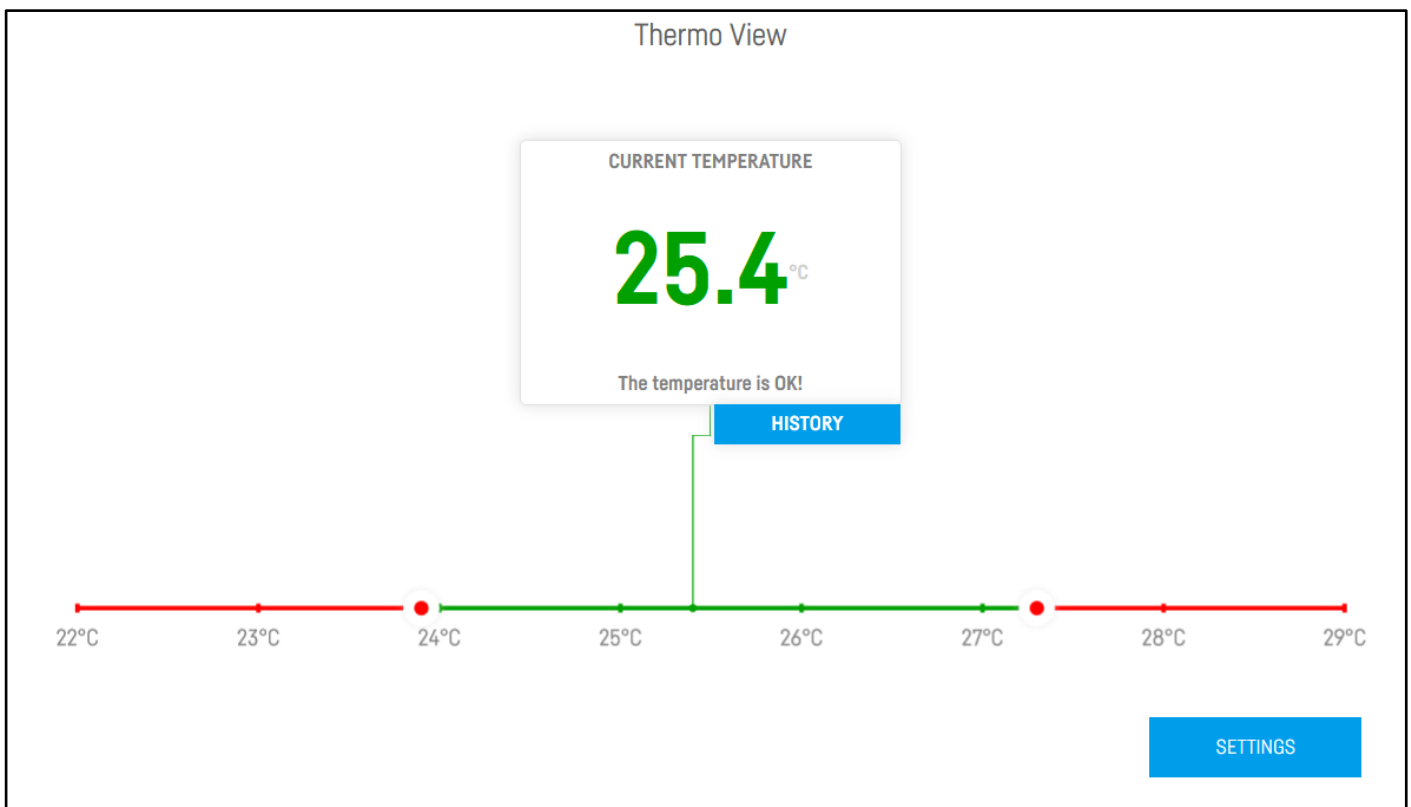
IMPORTANT: Calibration function is only available in the Smart Reef system, if you want to have an ability to take advantage of this, you have to create an account and the device has to be assigned to it. This function is not accessible from the device setup menu

Follow the steps below:

1. Login to the Smart Reef system and then select the Thermo view from the list on the left.



2. Select the device by clicking on it. The **SETTINGS** button should appear on the main screen in the lower right corner. Click on it and the **TEMPERATURE CALIBRATION** function should be there.



3. Submerge the temperature sensor in water that temperature is known. Wait 60 seconds and press **OK**

Remove the temperature sensor from the water and immerse it in water of known temperature. Wait 60 seconds and press OK.

OK **CANCEL**

4. Then put the correct temperature value in the box.

Enter the correct value of the measured water temperature.

°C

OK **CANCEL**

5. The calibration process has completed successfully.

The device is now calibrated. Remember to repeat this procedure systematically.

OK

6. After the calibration process, **Thermo view** will be showing adjusted temperature value. When you press the **SETTINGS** button, you will be able to see what temperature difference is set.

TEMPERATURE CALIBRATION
+0.1 °C

+0.1 value means that the value that you have put during the calibration is higher by +0.1 from the value that was measured before calibration.



IMPORTANT: Perform regular calibration if you would like your temperature measurement accuracy to be as high as possible.

IV. Resetting 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 housing in the place shown in the picture at the beginning of this manual.



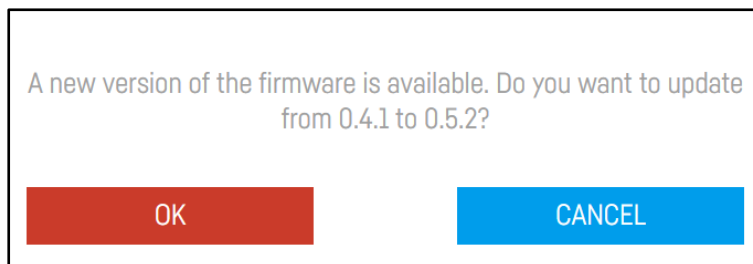
Place the magnet in the indicated place near the **Reset sticker**.

V. Smart reef system

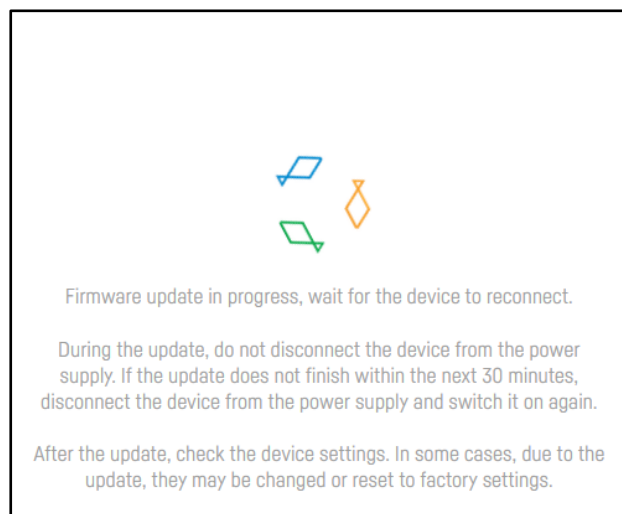
Connect to your Internet network via a computer or a mobile device. Next, go to www.reeffactory.com and log in to your **Smart Reef** account. Check, if your device has been properly added to the list of your devices.

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 make your device work even better.





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



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

The table below presents the typical problems that you can encounter when using the device and solution to these problems.

 Problem	 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 device 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 resolved.
The device does not broadcast Wi-Fi or you can't log into the device.	The device may require a reset	Put the magnet against the designated spot on the housing, wait for 5 seconds. Open the list of available networks, connect with the device and perform configuration.
Err message displayed on the screen	Temperature sensor failure	The device has to be returned for a check-up to the Authorized Service Centre



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.

VII. Dedicated power adapter - user guide

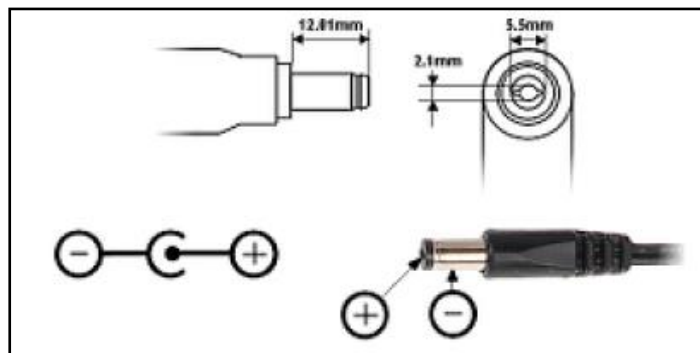
1. Make sure to connect the power adapter first to the device and next to power supply.
2. The power adapter is supplied from the grid. There is a risk of electric shock. Do not remove the power adapter housing yourself!
3. There is a risk of fire or electric shock. Leave the power adapter vents exposed to enable natural air circulation and protect the device from foreign objects or liquid spillage.
4. Using a wrong DC plug or forcing the DC plug into an electronic device may cause damage to the device or its malfunction.
5. Desktop power adapters should be placed on a stable surface. Falling can lead to permanent damage.
6. Do not place power adapters in high humidity locations or near water.
7. Do not place power adapters in high ambient temperature locations or near sources of heat or fire.
8. The output current and output power must not exceed the rated values provided in the specification.
9. Disconnect the device from power supply before cleaning. Do not use liquid or aerosol cleaners. Only use a damp cloth for wiping.
10. To dispose of this product, contact a local licensed recycling company. Do not dispose of your power adapter with mixed municipal waste.

The table below lists the power adapters dedicated for our devices along with the models and names of the devices they can be used with.

Power adapter model	Power adapter parameters	Power adapter specification	List of compatible devices
TPS-1201000ZZ	Plug power adapter 12 V 1 A DC	Input voltage: 100-240 V AC Operating frequency: 50-60 Hz Maximum input current: 0.6 A Output voltage: 12 V DC (11.4-12.6 V) Output current: Max. 1 A Input connector type: DC 5.5/2.1	<ol style="list-style-type: none"> 1. Level sensor * 2. Thermo view * 3. pH meter Plus * 4. TDS meter Plus * <p>* First generation devices were powered by a 3.3 V 2 A power adapter. Before purchasing a power adapter, contact us to find out which power adapter is suitable for your device.</p>
TPS-1202000ZZ	Plug power adapter 12 V 2 A DC	Input voltage: 100-240 V AC Operating frequency: 50-60 Hz Maximum input current: 0.6 A Output voltage: 12 V DC (11.4-12.6 V) Output current: Max. 2 A Input connector type: DC 5.5/2.1	<ol style="list-style-type: none"> 1. Dosing pump 2. Dosing pump Pro 3. Dosing pump X3 4. Dosing pump X4 5. Salinity guardian
TPS-1204000ZZ	Plug power adapter 12 V 4 A DC	Input voltage: 100-240 V AC Operating frequency: 50-60 Hz Maximum input current: 1.2 A Output voltage: 12 V DC (11.4-12.6 V) Output current: Max. 4 A Input connector type: DC 5.5/2.1	<ol style="list-style-type: none"> 1. Dosing pump Large
GST120A24R7B	Desktop power adapter 24 V 5 A DC	Input voltage: 85-264 V AC Operating frequency: 47-63 Hz Maximum input current: 1.4 A Output voltage: 24 V DC (23.8-25.2 V) Output current: Max. 5 A Input connector type: R7B 4 PIN	<ol style="list-style-type: none"> 1. Reef flare S 2. Reef flare Pro S
GST220A24R7B	Desktop power adapter 24 V 9.2 A DC	Input voltage: 85-264 V AC Operating frequency: 47-63 Hz Maximum input current: 1.7 A Output voltage: 24 V DC (23.8-25.2 V) Output current: Max. 9.2 A Input connector type: R7B 4 PIN	<ol style="list-style-type: none"> 1. Reef flare M 2. Reef flare Pro M 3. Reef flare L

GST280A24R7B	Desktop power adapter 24 V 11.67 A DC	Input voltage: 85-264 V AC Operating frequency: 47-63 Hz Maximum input current: 2.0 A Output voltage: 24 V DC [23.8-25.2 V] Output current: Max. 11.67 A Input connector type: R7BF 4 PIN	1. Reef flare Pro L
GST280A24R7B	Desktop power adapter IDLC-45A-500	Input voltage: 90-295 V AC Operating frequency: 47-63 Hz Maximum input current: 0.16 A Output voltage: 35-50 V Output current: Max. 0.5 A Input connector type: N/A	1. Reef flare Bar S 2. Reef flare Bar M
GST280A24R7B	Desktop power adapter IDLC-45A-1050	Input voltage: 90-295 V AC Operating frequency: 47-63 Hz Maximum input current: 0.4 A Output voltage: 16.8-24 V Output current: Max. 1.05 A Input connector type: R7BF 4 PIN	1. Reef flare Bar L

DC 5.5/2.1 connector:



R7B and R7BF connector:

