OASIS Cloud RO Controller

Operational Manual

OASIS Cloud RO Controller

OASIS Wi-Fi RO Controller

The OASIS Cloud RO controller is designed for monitoring your reverse osmosis water system from anywhere, anytime, 24/7. You can easily keep track of your RO system status and all parameters required for RO operation at all times!

Most RO equipment on the market is designed to use a raw water flushing mechanism. However, in brackish water and seawater desalination RO equipment, pure water flushing is applied to greatly extend the life of the RO membrane. The Oasis RO controller can be used in both applications.

OASIS Cloud Management Platform

The OASIS Cloud Management Platform can provide more complete operational data, A simple and clear design allows you to see at a glance how many devices are operating or alerting through mobile phones or desktop computers.
It provides you with a convenient integrated IoT analysis platform service that allows You can monitor various devices anytime and anywhere with visual real-time data charts and analysis tools.

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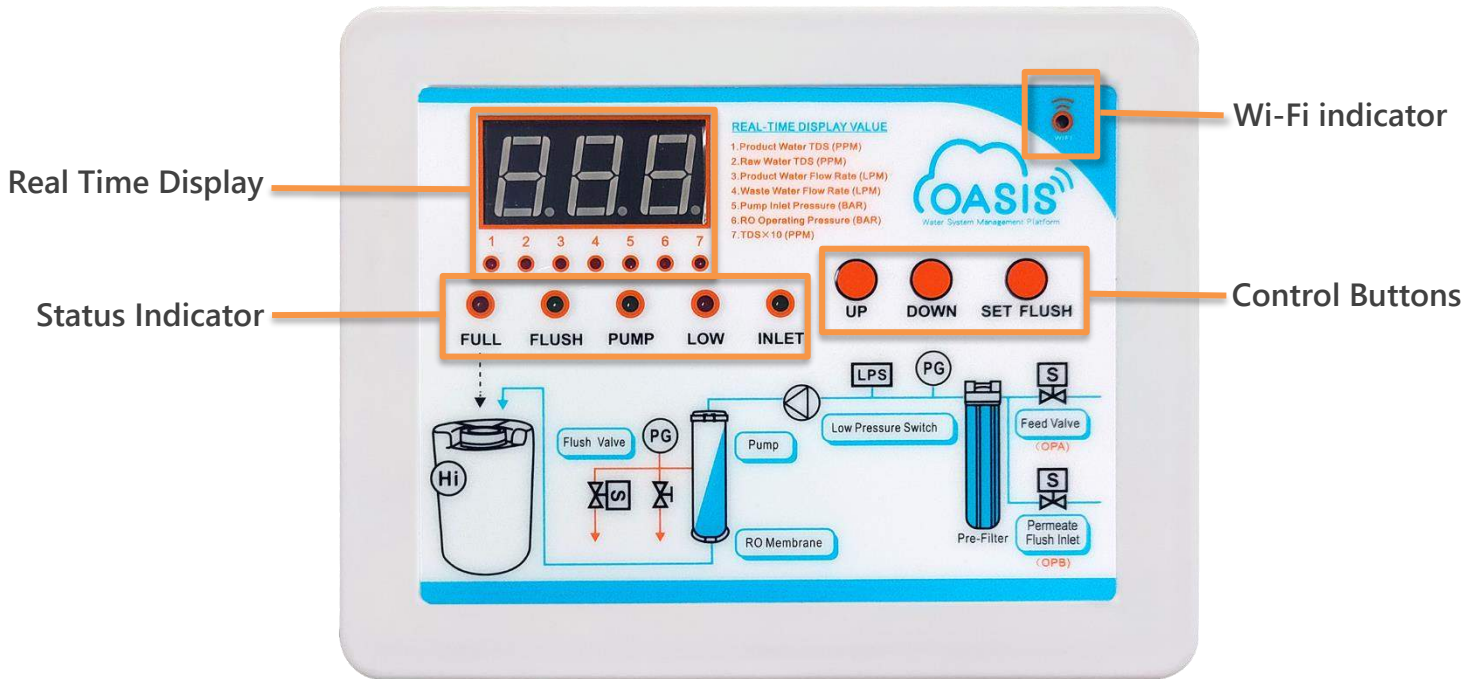
Status Indicator Description

Status Indicator	Color	Description
Full	● Red	When the permeate storage tank is full, the RO system will stop producing water and enter standby mode.
Flush	● Green	The system is undergoing an automatic flush cycle for the RO membrane.
Pump	● Green	The RO high-pressure pump is operational, producing water.
Low	● Red	The inlet water pressure is below the default pressure.
Inlet	● Green	The water inlet solenoid valve opens, initiating the water supply.
Wi-Fi	● Blue	When the permeate storage tank is full, the RO system will stop producing water and enter standby mode.

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Control Buttons

Control Buttons		LED Display	Description
+			The value **increases** with each press.
–			The value **decreases** with each press.
SET/ FLUSH			• While the RO system is running, press the **SET/FLUSH** buttons once, and the RO membrane flush starts (30 seconds countdown). Pressing again will stop the flush countdown and resume normal operation. • Press and hold for 3 seconds to enter the Setup Mode. • Use the **+/-** buttons to select Setup Mode, then press again to enter numerical mode. Use the **+/-** buttons to adjust to the desired value, then press again to confirm.
Setup Mode	FUL		Tank-full flushing time setting (Default is 30 seconds).
	OSC		Scheduled flushing interval setting (Preset to flush every 360 minutes).
	SFH		Automatic Startup flushing time setting (Default is 30 seconds for each flush).
	FOC		Timed/Manual flushing time setting (Default is 30 seconds for each flush).

NOTE : You can also customize the security password mode, please contact us.

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Display Description (OPA Mode)

LED Display	Indicator Status	Description
OPA	FULL FLUSH PUMP LOW INLET	When the power is on, the screen will first display "**888**" and the default mode "**OPA**", then the raw water solenoid valve starts and feeds water.
030	FULL FLUSH PUMP LOW INLET	Startup Flush: the screen displays "**030~000**", and the countdown is 30 seconds.
882	FULL FLUSH PUMP LOW INLET	Start the pure water production, the number displayed on the screen is the TDS value of the pure water, and the indicator "**PUMP**" lights up.
A30	FULL FLUSH PUMP LOW INLET	Start the Timed Flush: The default setting is every 6 hours flushing 30 seconds, and the screen displays a countdown of "A30~A00".
FUL	FULL FLUSH PUMP LOW INLET	When the water tank is full, start to Tank-Full flush for 30 seconds, and the system will stand by.
LO	FULL FLUSH PUMP LOW INLET	When the water tank is low (below the set pressure), the display shows "**LO**", the indicator **LOW/INLET** lights up, and the system will continue to feed water. The wastewater end will continue to drain until the inlet water pressure reaches the set value. When the indicator "**LO**" lights off, the system will flush for 30 seconds and resumes water production.

NOTE If the pressure cannot reach the default value, please turn off the power and check your inlet water pressure. It is recommended to double confirm with the factory your raw water inlet pressure before installation.

LED Display	Indicator Status	Description
A30	FULL FLUSH PUMP LOW INLET	Start the Manual Flush: Press the ⬤ **SET/FLUSH** button once, and the system will start a 30-second flush, and the system will begin a 30-second flush. Following the flush, the system resumes water production.
999	FULL FLUSH PUMP LOW INLET	The default TDS range is 0 to 999 ppm, and the display flashes beyond the range of 999. (OPA mode is suitable for raw water TDS <1,000ppm)

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Additional Information

1. The high-pressure pump remains inactive during Boot Flush Mode.

2. In Flush Mode, the high-pressure pump is activated only for Manual and Timed Flush.

3. There are four Flush Modes: Tank-Full (FUL), Timed (OSC), Startup (SFH), and Manual (FOC). The flush time can be adjusted from 0 (off) to a specified number of seconds per unit.

4. Timed Flush operates based on water-making time and is reset after Manual Flush. Timed Flush is only counted according to the water-making time, and it will be re-timed after Manual Flush.

5. About Low-pressure Alarm:

    When the reverse osmosis (RO) equipment begins producing water, if the low-pressure alarm activates, the system will temporarily halt production, after a 3-second pause, the low-pressure alarm will be reset, and water production will resume.

    However, if the low-pressure alarm is triggered repeatedly five times within one minute, the RO system will enter a shutdown state. It will remain in this locked state until the power is restarted to initiate water production again.

    This process ensures that the system responds appropriately to unstable pressure situations. If the problem persists, suspend the device and consult a professional.

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2. OASIS Cloud Management Platform

Environment Set Up

Make sure your RO system is running and producing pure water successfully.

For optimal performance, it is recommended to set up a dedicated and independent WiFi network for Oasis. When pairing the Oasis Cloud app with an Oasis RO Controller, temporarily disable other WiFi networks in the environment to prevent interference.
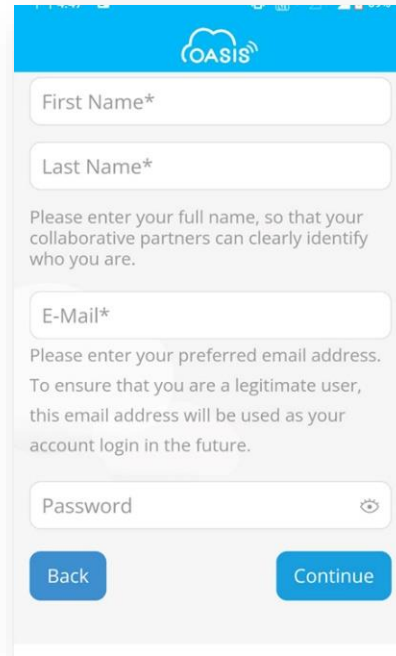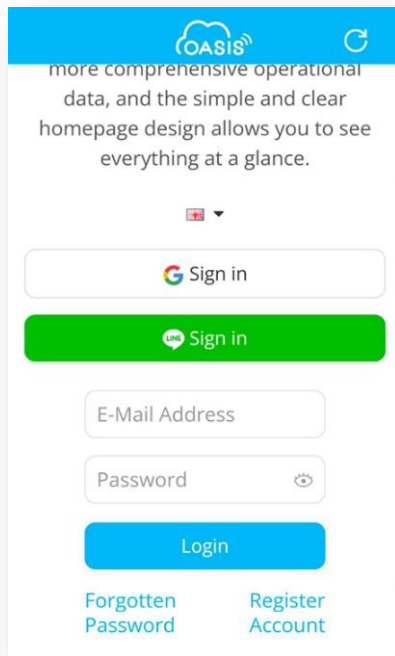
Get Start

## Pairing the Oasis Cloud with the device

1. Download the OASIS_Cloud Apps from Google Play.
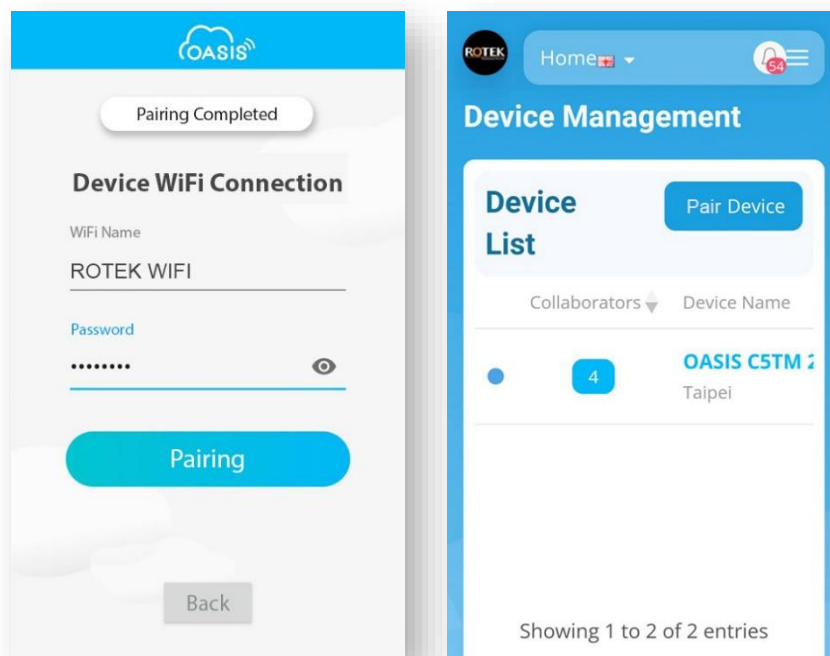   Your phone has to be Android 9.0 or higher.
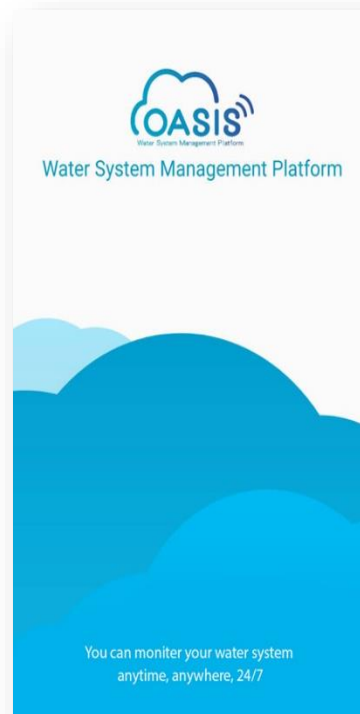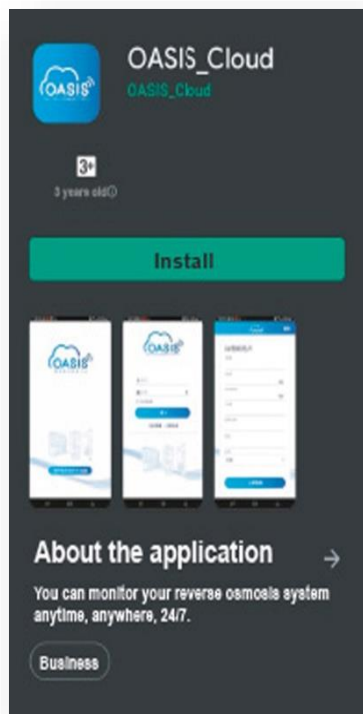
2. Register your account. Follow the instructions.
   Account name, password, and email address are required.*
   Password must be at least 6 characters long and contain at least 1 English uppercase and 1 English lowercase.

3. Please connect your phone to the same WiFi network that the Oassis RO Controller will be connecting to.

4. In the " **Home**" or " **Device Management**" on the main menu, Tap **" Pair Device"**.

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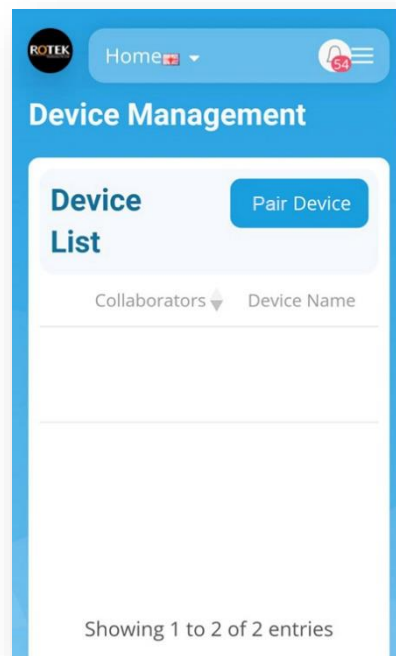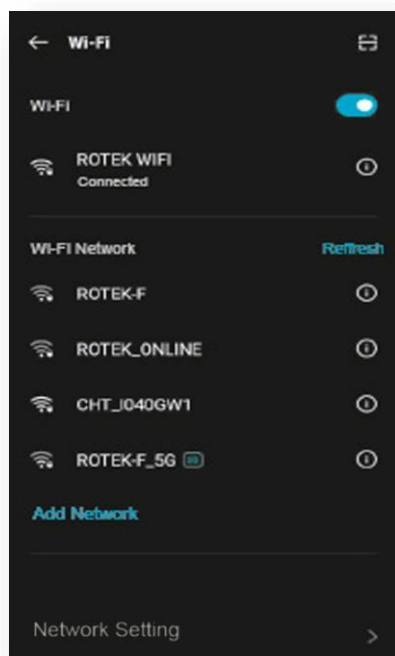
5. Enter the WiFi name and password.

6. Press and hold the **"UP"** button on the RO controller for approximately 3 seconds until you hear a long beep sound. Afterward, the blue light in the upper right corner will illuminate, and after about 3 seconds, it will start flashing to indicate pairing mode.

7. While the blue light is flashing, tap on "**Pairing**" and wait for the connection to complete. Once "***Pairing Completed***" appears, the blue light will stay illuminated. Press "**Back**" to return to the "**Home**" screen.

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8. If "***Pairing Failed***". Pleas tap "Stop Pairing" and repeat the step 6-7 again.
    Until "***Pairing Completed***" appear.
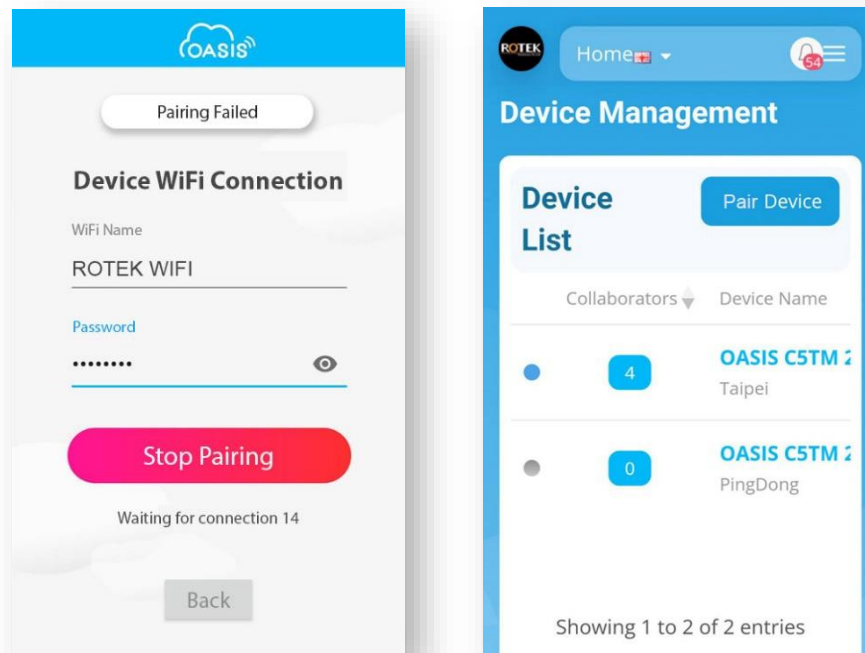
9. The blue light on the controller remains illuminated, and the app automatically updates the RO system status. If you need to add another RO system device, you will need to repeat the procedures starting from step 3.

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Monitor Your Device

Device Management

In the "Home" or "Device", tap the device name you wish to see the data. Additionally, you can access more functions by tapping the "Setting" Icon at the top-left corner.

You can monitor Raw Water and Pure Water's TDS, Flow, Pressure…etc.
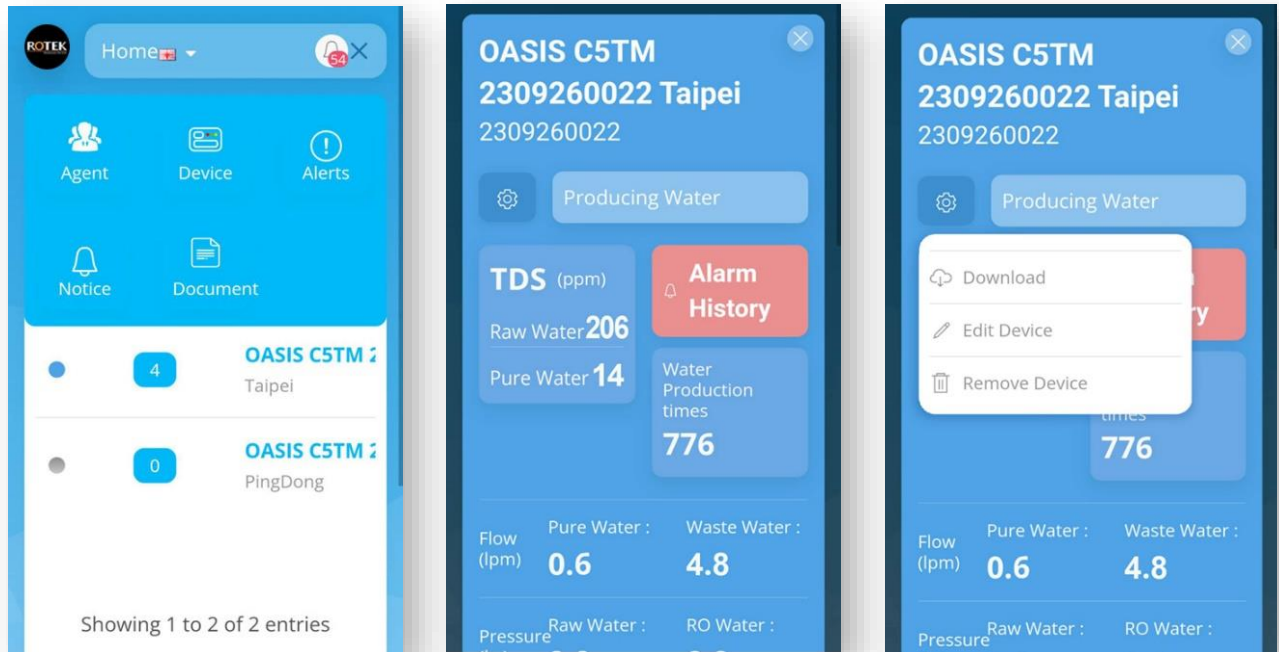
Rolling down you can see 3 charts of different data.
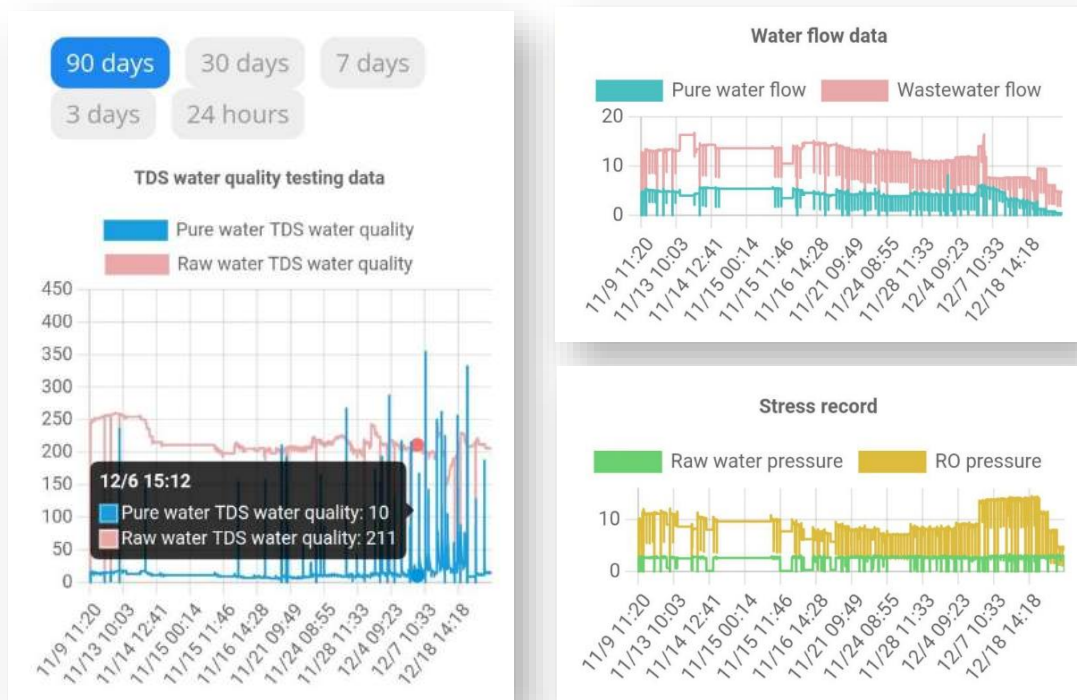
Rename Device, Edit Device, & Remove Device

In the Device Setting drop-down menu, tap "Edit Device", you can change the device name, location,...etc. Then tap "Save Changes"

In the Device Setting drop-down menu, you can "Download" all the logs, or "Remove Device" to remove the device.
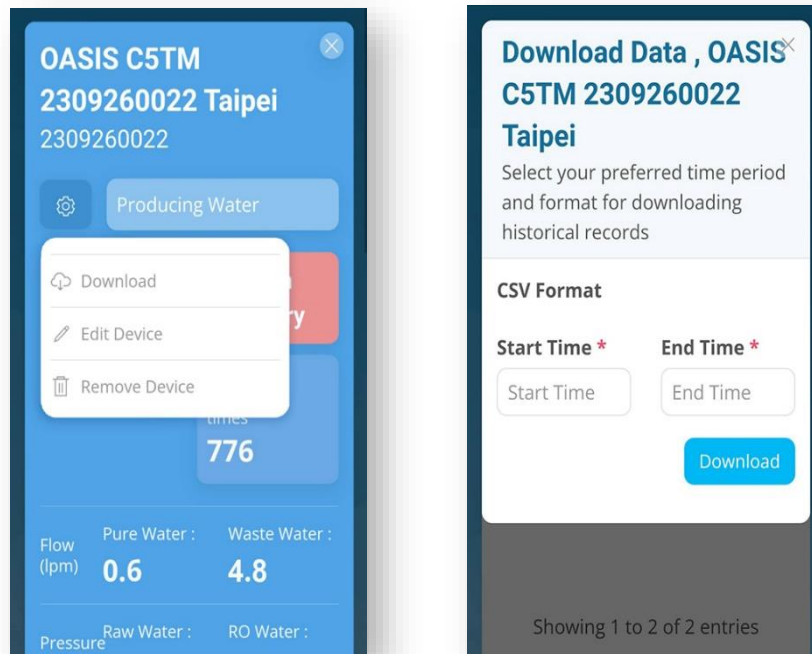
Share Your Device

Agent / Collaborator

1. In the "**Home**" on the main menu, tap the "**Agent**", then tap "**Invite Collaborators**".
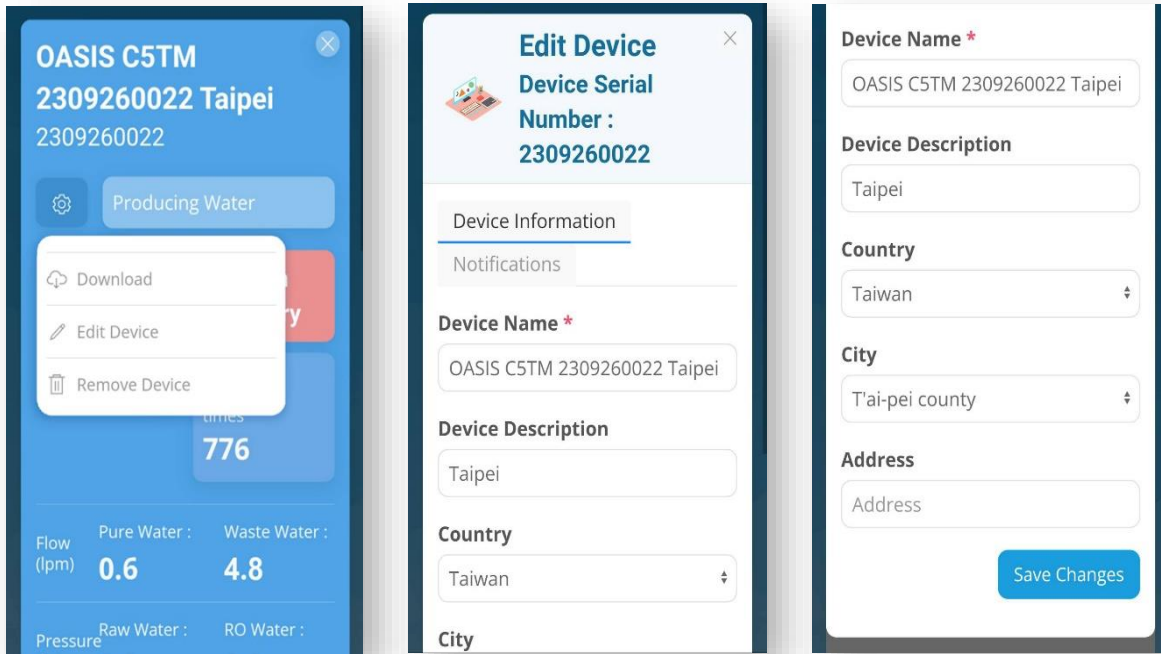
2. Enter the name and email of the collaborator you want to invite,
   then tap "**Send Invitation**".
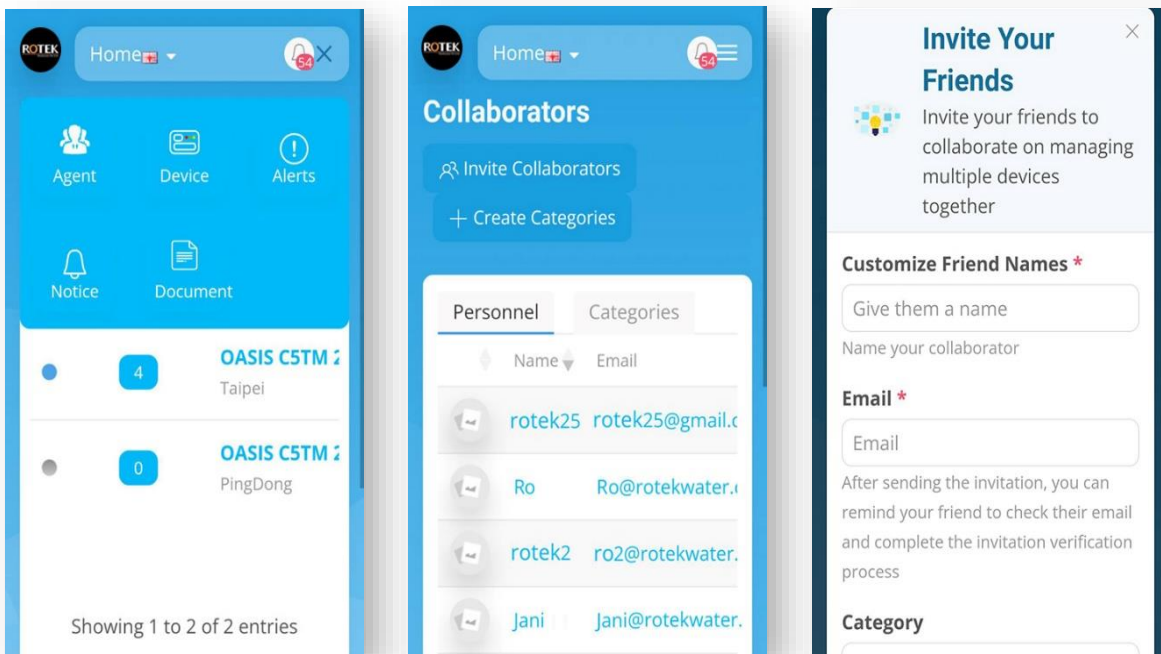
3. The invited collaborator will receive an email containing a verification link. They must click on the link to verify their account. Once verified, you will receive a notification (accessible via the "**Bell Icon**" in the top-right corner).
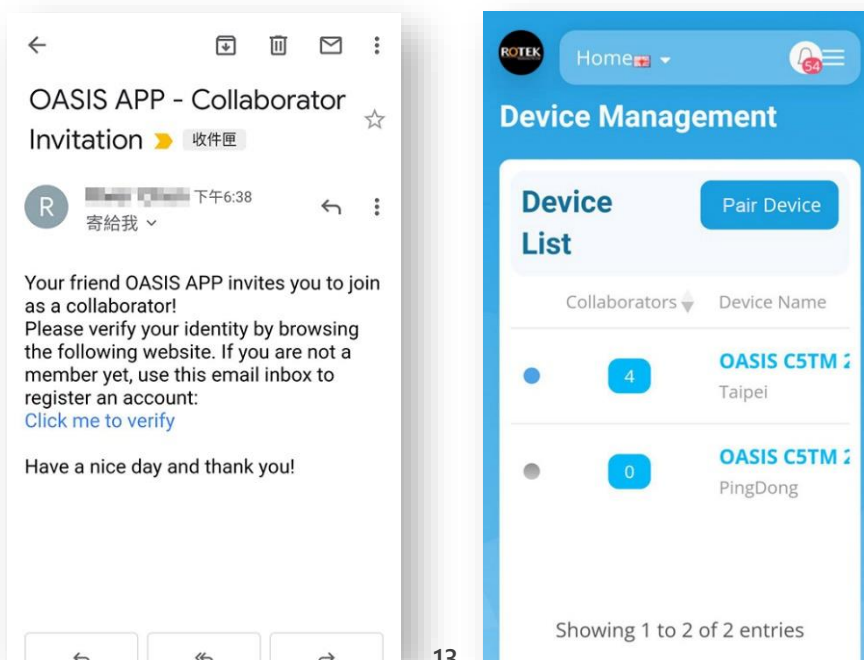
4. Tap the square displaying the number of collaborators bonded with this device, located next to the device name.
Ensure to check those options/boxes and then select "**Save Changes**", can access the data of the device.

5. You can revisit this section later to adjust the settings as needed.
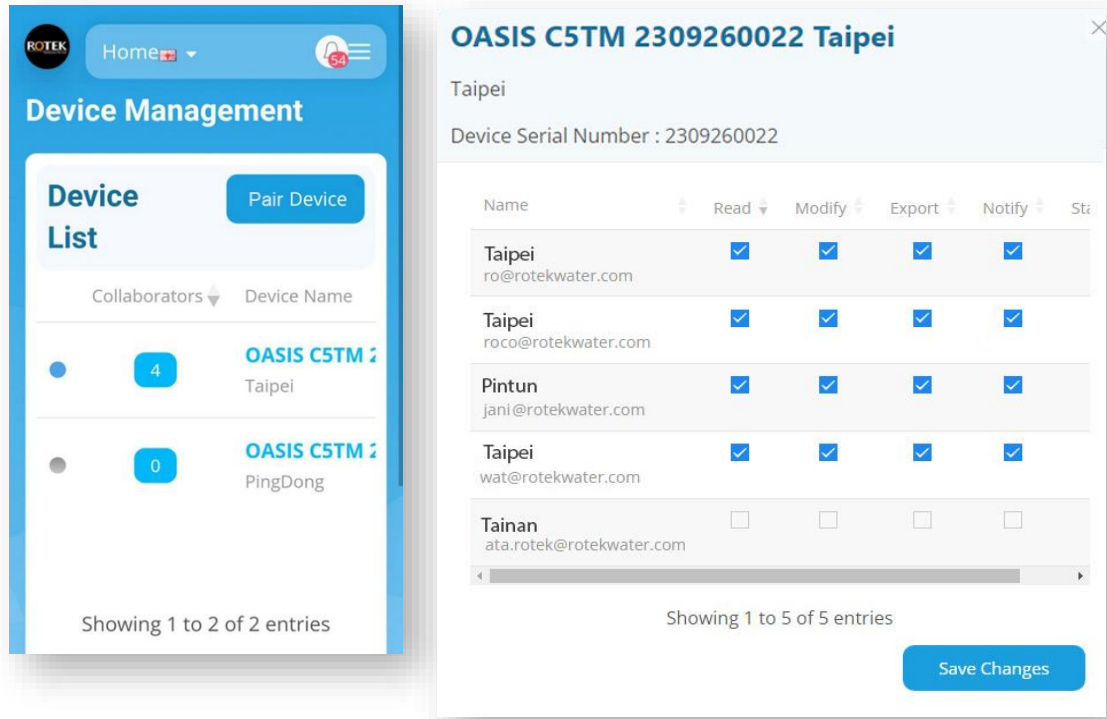
Year Limited Warranty

We Cover
This warranty covers any defects in the parts or manufacturing of your Rotek Water Reverse Osmosis Water Filtration System. We will give you new replacement parts in exchange for any defective parts.

What to Do
Please contact your qualified local representative who can give you information based on your situation. Be sure to have a copy of your purchase confirmation email or receipt. They will verify that the product and problem are under warranty and help you arrange to send your defective part back to Rotek Water with your receipt and contact information (name, address, phone number, and email address). They will help arrange to send the defective part, and the delivery of your replacement part, as well as guide you through the installation..

Time Covered
This warranty is effective for 1 full year from the date of the original purchase.

Not Covered
This warranty does not cover labor for removal or installation, accumulation of dirt or grime (you are responsible for your own cleaning), systems with the serial number removed or altered, damage from improper storage (high or low temperature, sun damage, etc), damage from a system not installed as instructions directed, anyone other than the original purchaser, damage from system abuse or unintended operation of the system, acts of God, improper water source, modification, negligence, use of the system beyond recommended specifications, Filters, RO Membrane, incidental damages from system failure, systems used with parts not provided by Rotek Water (including tanks, filters, faucets, pumps, diverter valves), or cosmetic damages..

Your State
Some states has further regulation on damages and warranty coverage. You may have other rights depending on your state.

Email us: sales@rotekwater.com