KACTOILY

Smart Water Monitor Slim
User Manual

Monitors pH, ORP, and water temperature.

K-Sure-P3-1



Kactoily Know Your Water

EN

WELCOME

Thank you for choosing Kactoily.

We're glad to be part of your pool and spa care routine. Your Kactoily 3-in-1 Water Monitor continuously monitors pH, ORP, and water temperature, helping you stay informed about changing water conditions and manage your pool, hot tub, or spa with greater confidence.

The probe and display must remain powered for continuous monitoring and will pair automatically after power-on. Connect the display to the Kactoily App via a 2.4 GHz Wi-Fi network to view real-time measurements, historical trends, and alerts.

This manual provides essential instructions for setup, daily use, maintenance, and troubleshooting. Please read it before use and keep it for future reference.

To keep the printed manual concise and easy to use, it includes only the essential operating instructions. For more detailed guidance, you can access the complete digital user manual anytime in the Kactoily App.

GET IT ON Google Play

Download on the App Store

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⚠ Important Safety Information

Read and follow all instructions before using this product. Keep this manual for future reference.

General Safety

1. Use this product only for monitoring pH, ORP, and water temperature in residential pools, hot tubs, and spas.
2. Keep the product, calibration materials, and KCl storage solution away from children and pets.
3. Do not disassemble or modify the product. Stop using it if it is damaged, leaking, unusually hot, or produces an unusual odor.
4. Do not make significant chemical-treatment adjustments based solely on a single abnormal reading.

Electrical Safety

5. Neither the probe nor the display contains a battery. Both require continuous external power during operation.
6. Use only the supplied 5V/1A power adapters.
7. Keep the display, power adapters, plugs, USB connectors, and other electrical connections away from water. Never handle electrical connections with wet hands.

Probe Safety

8. Use the floating ring to keep the probe upright and stable. Do not fully submerge the probe; keep the top antenna section above water for reliable wireless communication.
9. Keep the probe away from water jets, heater outlets, bubble outlets, filter inlets, drains, chemical-dosing areas, and areas with strong or turbulent water flow.
10. The pH and ORP sensing elements are precision components. Do not strike, scratch, or clean them with hard brushes, sharp objects, or abrasive materials.

Quick Start

Before First Use

• Take out the probe, display, power cables, power adapters, and floating ring.
• Keep the probe and display close together during initial setup.
• Download and install the Kactoily App, then prepare a 2.4 GHz Wi-Fi network.
• Keep the storage cap and KCl solution for future storage.

Probe–Display Pairing



Step 1.
Plug In & Keep Powered

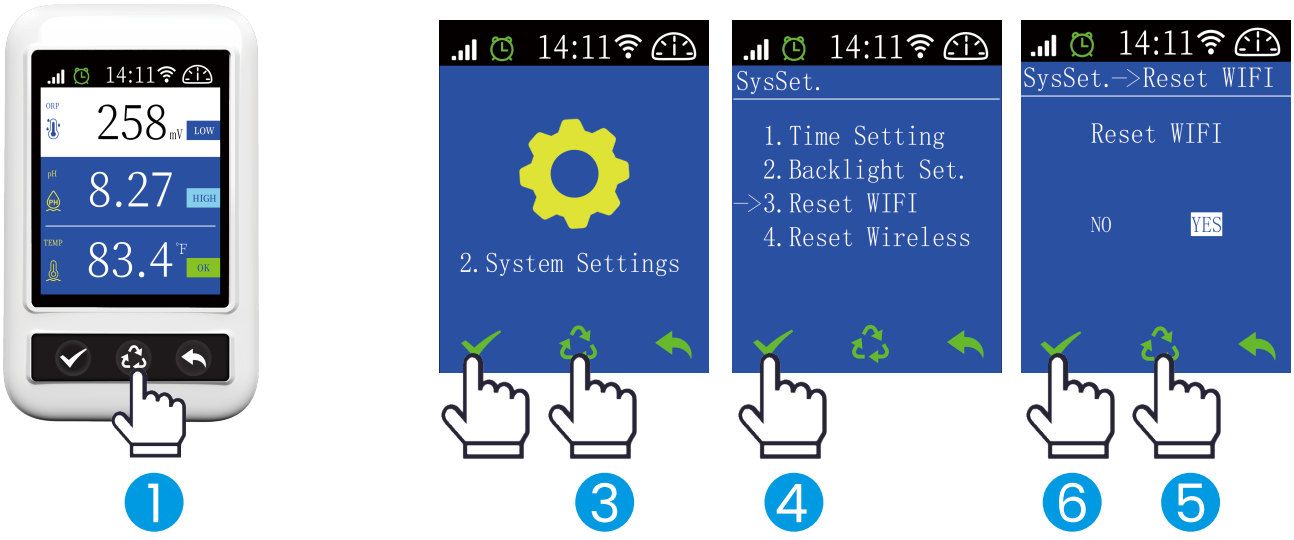
Remove the cap, install the floating ring, and power on the probe and display. They connect automatically.

Display–App Connection



Step 2.
Start App Setup

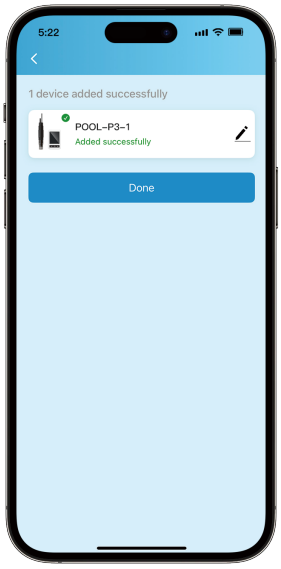
Open the Kactoily App → Pool & Hot Tubs → K-Sure-P3-1 → Add Device

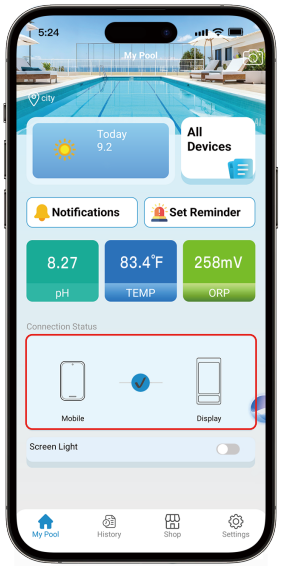


Step 3.
Reset Wi-Fi on the Display

Menu → System Settings → Reset WIFI → YES
The screen flashes three times when complete.







Step 4.
Connect to 2.4 GHz Wi-Fi

Select your 2.4 GHz Wi-Fi network, enter the password, then tap Next → Done.

Understanding Readings

Learn More About Your Water

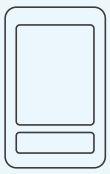
Parameter	What It Means	Recommended Range
pH	pH: pH indicates how acidic or alkaline the water is.	7.2 – 7.8
ORP	ORP : ORP indicates the oxidation-reduction condition of the water	650 – 750 mV
Temperature	Water Temperature: Water temperature affects swimmer comfort, chemical activity, ORP behavior, and reading stability.	24 – 30°C (75 – 86°F)

Product Overview

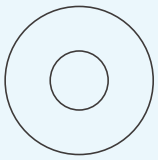
Package Contents



Probe with 2m Power Cable ×1



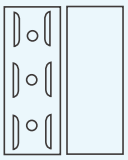
Display *1



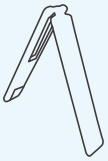
Floating ring *1



KCl storage solution *1



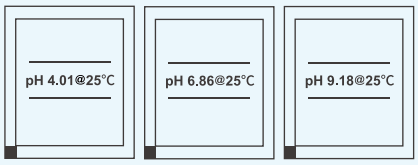
Display Slide Rail *1



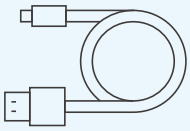
Display Stand *1



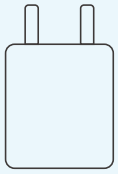
ORP calibration powder *3



pH calibration powder *3



Display power cable *1

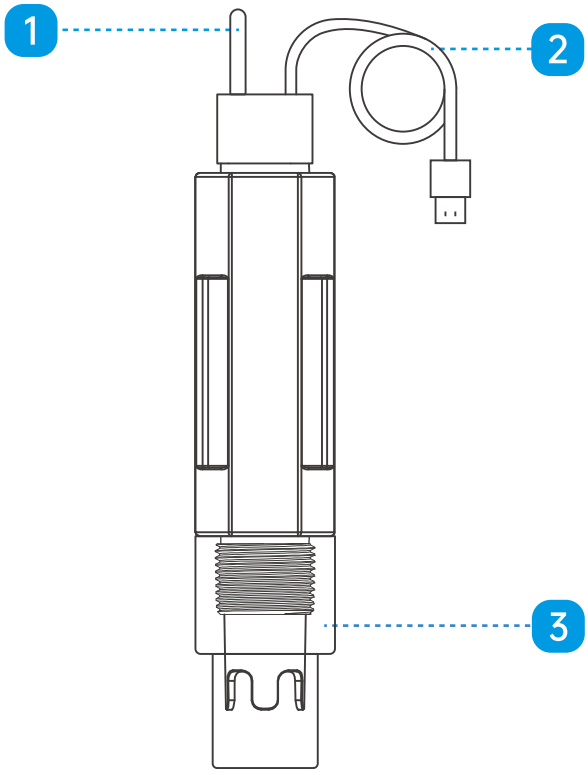


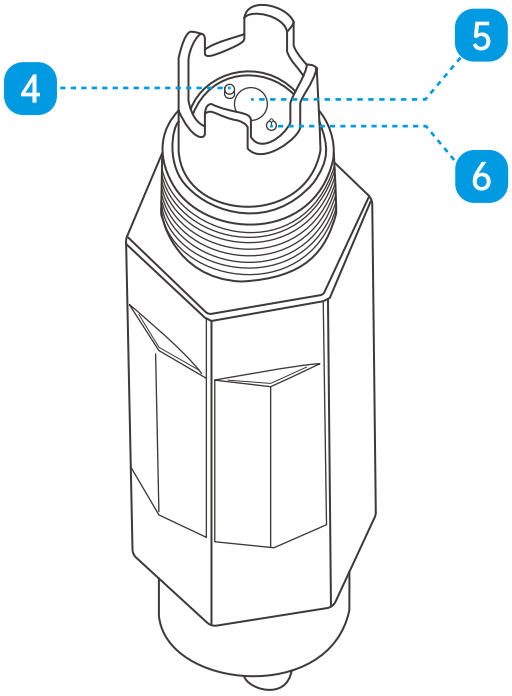
Regional power plug adapters *2



User Manual *1

Probe Overview





1 Wireless Antenna

2 Power Cable

3 Protective Storage Cap

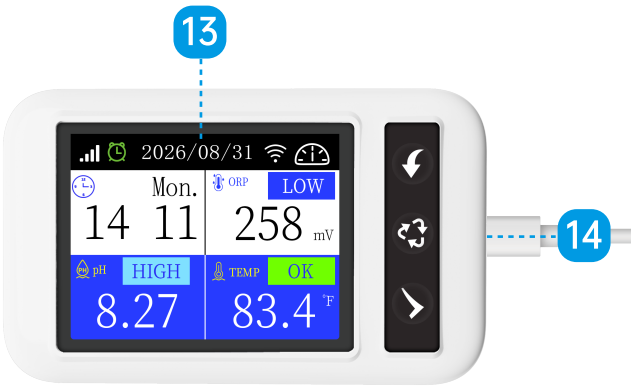
4 Temperature Sensor

5 pH Sensor

6 ORP Sensor

Probe Overview





1 Time

2 Power-saving Mode

3 Wireless Signal Icon

4 ORP

5 pH

6 TEMP

7 WiFi Sign

13 Right Button

14 Date Week

15 USB Type-C Charging Port

8

	Low Input Voltage
	Normal Input Voltage
	High Input Voltage

9 Comfort Level Display

Parameter	Comfort Level Indication
pH	**LOW:** <7.2; **OK:** 7.2–7.8; **HIGH:** >7.8
Temp	**COLD:** <24°C (<75.2°F); **OK:** 24–30°C (75.2–86°F); **HOT:** >30°C (>86°F)
ORP	**LOW:** <650 mV; **OK:** 650–750 mV; **HIGH:** >750 mV

Button Functions by Screen—Short Press Unless Otherwise Noted

Button	Home Screen	Menu/Settings	Calibration / Adjustment
10 ✓	Switch 12/24-hour format	Confirm selection	Decrease value
11 ♻	Enter menu	Change selection	Confirm
12 ↩	Switch °C/°F Hold 2 sec: Rotate display	Go back	Increase value

Installation and Placement

Probe Placement

For stable readings, place the probe upright in an area with gentle water circulation.



Avoid placing the probe:

- Near jets, bubbles, heater outlets, or chemical-dosing areas;
- Where it may hit the pool wall or bottom;
- Where the cable may be pulled, pinched, or tangled.

Keep the display, plugs, and connectors away from water, rain, and splash zones.

Display Mounting Options

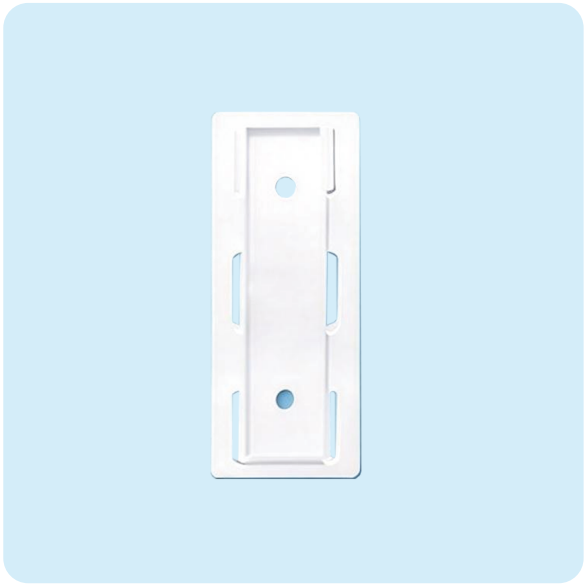
Option 1: Slide Rail Mounting



1. Remove the protective film from the adhesive pad.



2. Attach the slide rail to a clean, smooth surface and press firmly.



3. Attach the matching rail to the back of the display.



4. Slide the display into place.

Option 2: Display Stand



1.Unfold the stand.
(Note: Remove the protec-tive film from the corner magnet before use.)



2. Remove the protective film from the adhesive pad on the stand.



3. Attach the display firmly to the adhesive side of the stand.



4. Adjust to the desired angle.

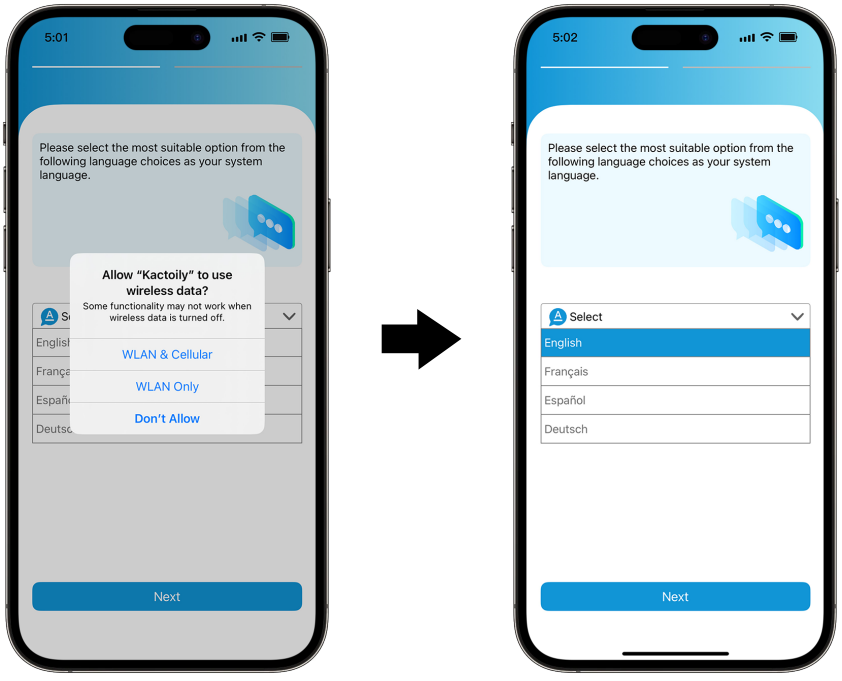
Kactoily App Setup

Register and Sign In

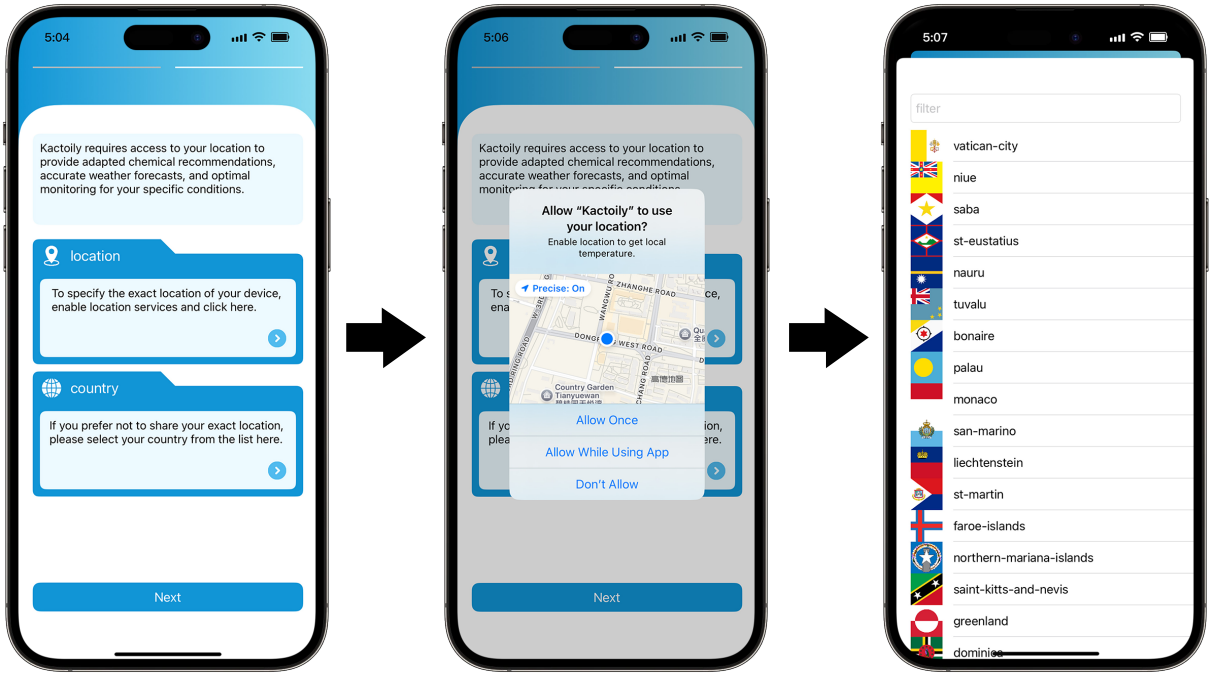
Download the Kactoily App from the Apple App Store or Google Play Store and open the App to get started.



1.Open the Kactoily app to set up your account.



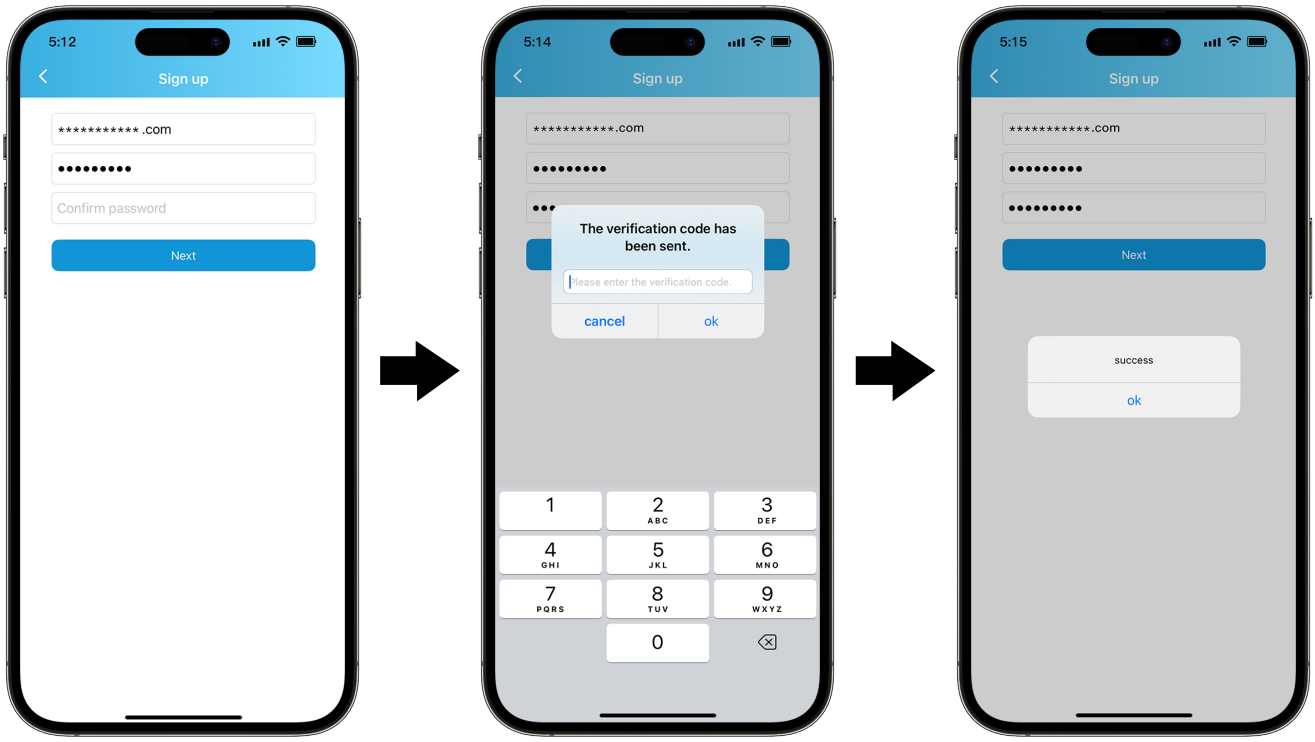
2.Allow Kactoily to access your wireless network and select a language to continue.



3.Allow Kactoily to access your location, and select your country.



4.Register or Log In:
(1)New Users — Register
(2)Existing Users — Log In
【Your email address will be used for all future logins.】

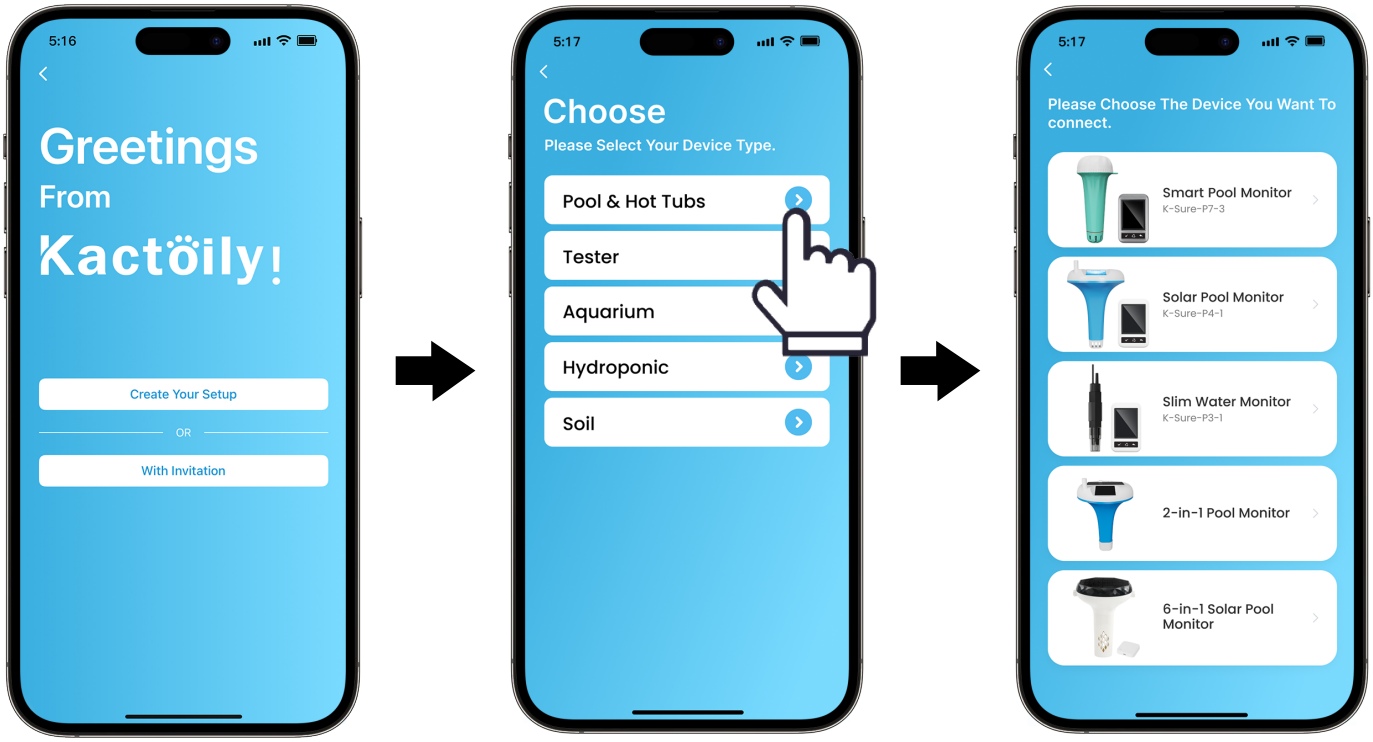


5.Re-enter your password to confirm, then enter the email verification code to finish registering.



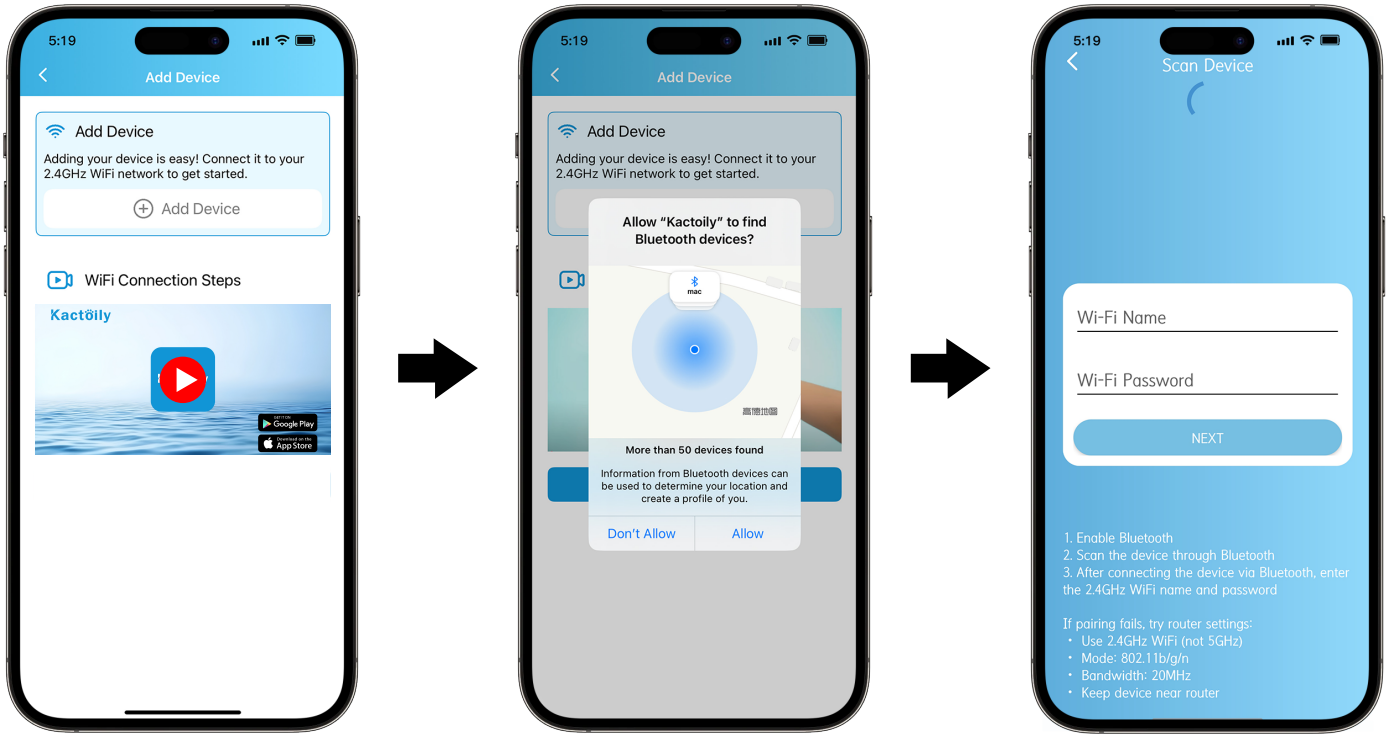
6.Once registered, enter your account and password to log in.

Add Your Device



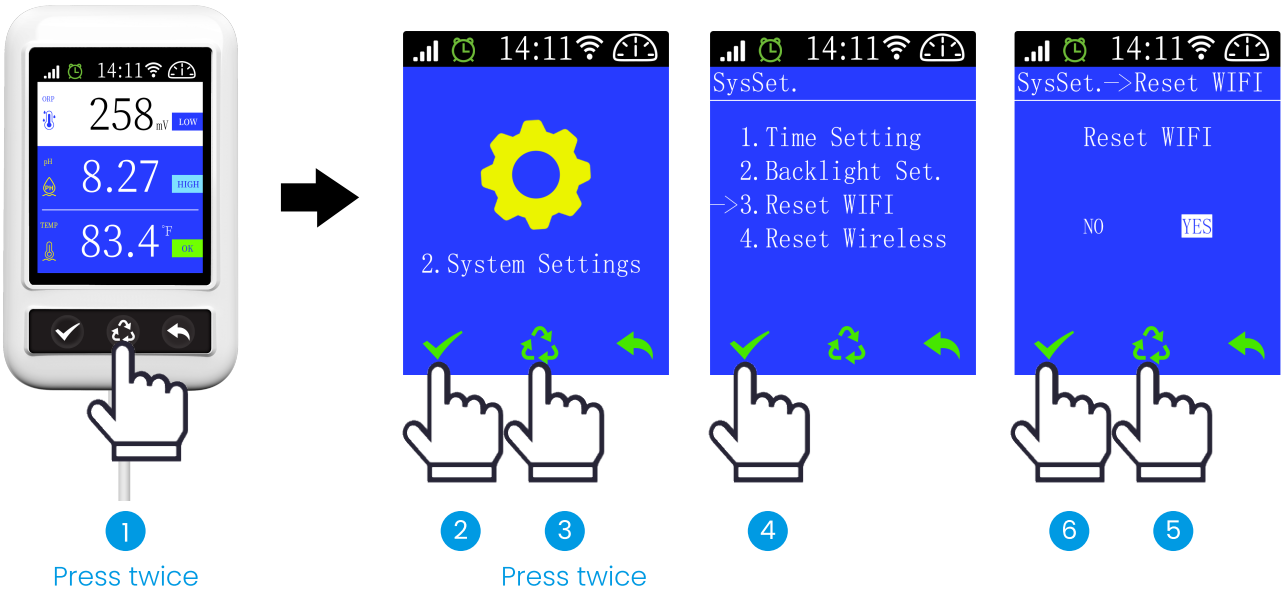
1.Tap **Create Your Setup** → **Pool & Hot Tubs** → **Slim Water Monitor** (K-Sure-P3-1) .

Note: If you have a device-sharing invitation, select With Invitation instead. Shared users can only view readings and cannot modify device settings.



2.*Please watch our Wi-Fi connection video before you begin .
Tap Add Device and allow Bluetooth and Location access when prompted. Wait for the black display icon to appear on the Scan Device screen.

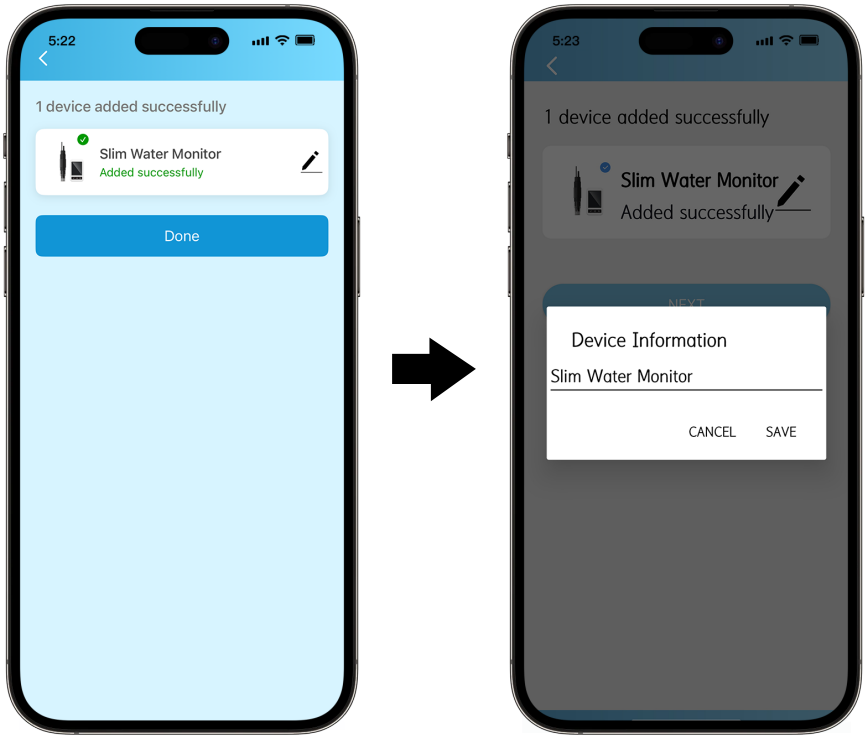
Note: If the icon does not appear, the device has not been detected. Select Reset WIFI on the display and scan again.



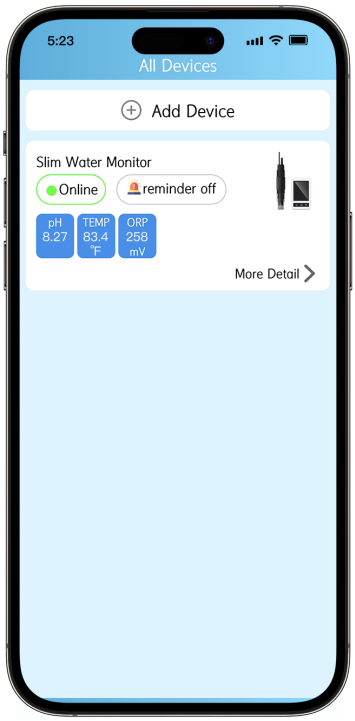
3.Reset Wi-Fi on the Display:
Keep the display powered on. Follow the button sequence shown to select System Settings → 3. Reset WIFI → YES.
The screen flashes three times when the reset is complete.



4. Connect to 2.4 GHz Wi-Fi
Once the device is detected, tap the Wi-Fi icon in the top-right corner, select your 2.4 GHz Wi-Fi network, enter the password, and tap Next to connect.



5.Connection successful.You can now name your monitor.



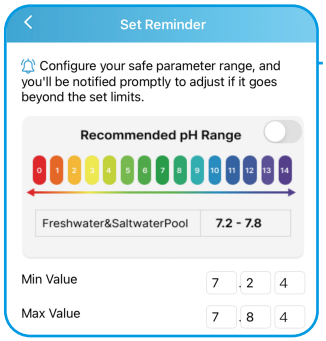
6.Tap “More Details” to go to the main page.

Main Page Overview

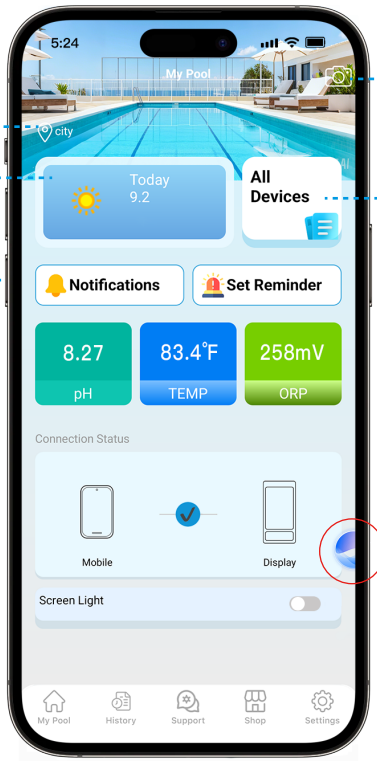
My Pool

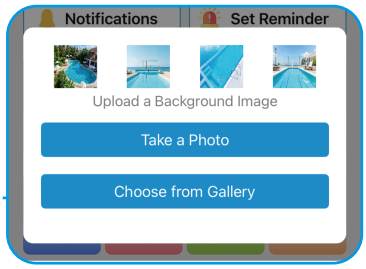
Location

Today's Weather

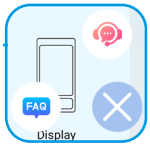


*After setting a reminder, you'll see a notification in 'Notifications'.









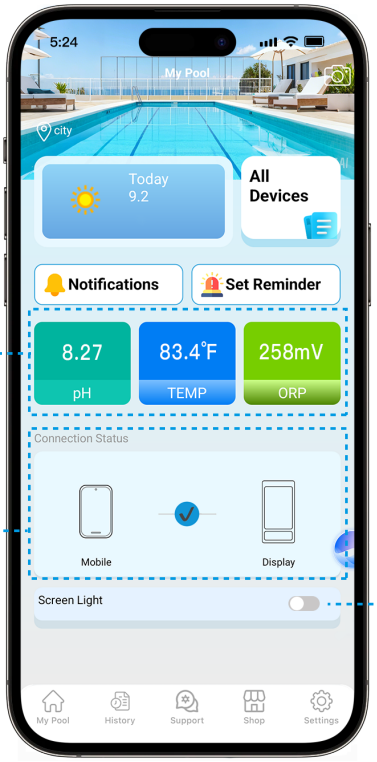
Tap for FAQ & Support



Red dot: unread message

Three Parameters

Mobile—Display Connection Status





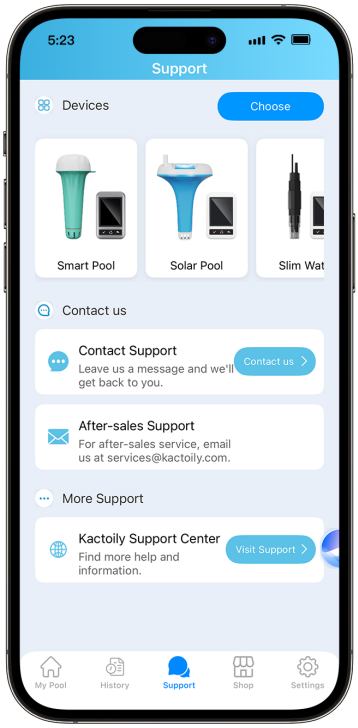
History



Export History File

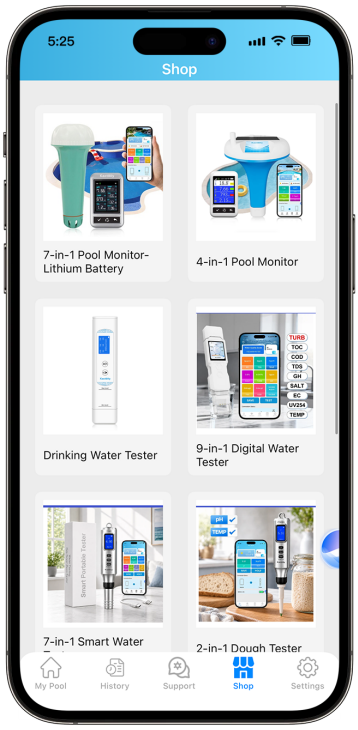
You can view data by day, week, month, or quarter. Click 'Export' to get the historical data file.

Support



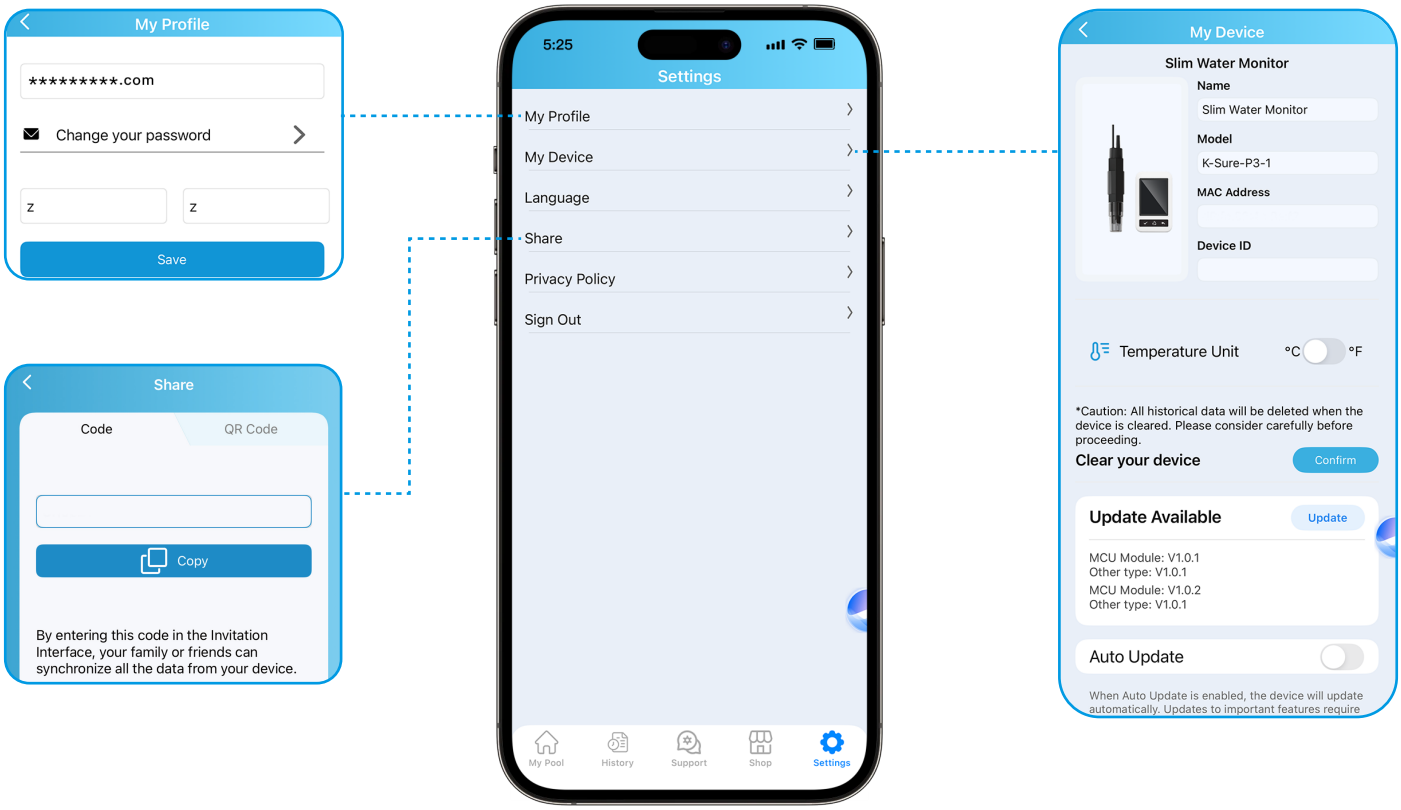
The Support page provides help and after-sales assistance.

Shop



New products will be promptly updated in the shop.

Settings



My Profile:
(1)Device Information: View or edit the device name, model, MAC address, and Device ID.
(2)Temperature Unit: Switch between °C and °F.
(3)Clear Your Device: Clear device data. Warning: All historical data will be deleted.
(4)Firmware Update: Tap Update when a new firmware version is available.
(5)Auto Update: Enable automatic firmware updates.

My Device: Edit device name, view device ID information.

Language: Select language.

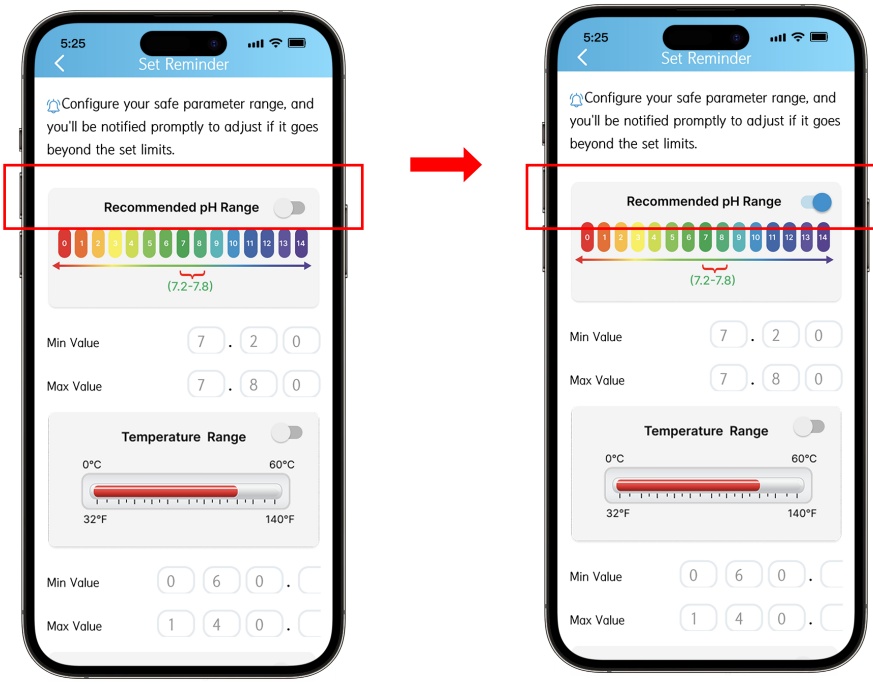
Share: Share your device with others through a code or QR code.

Privacy Policy: View how the app collects, uses,stores, and protects users' personal information.

Sign Out: Log out of your account.

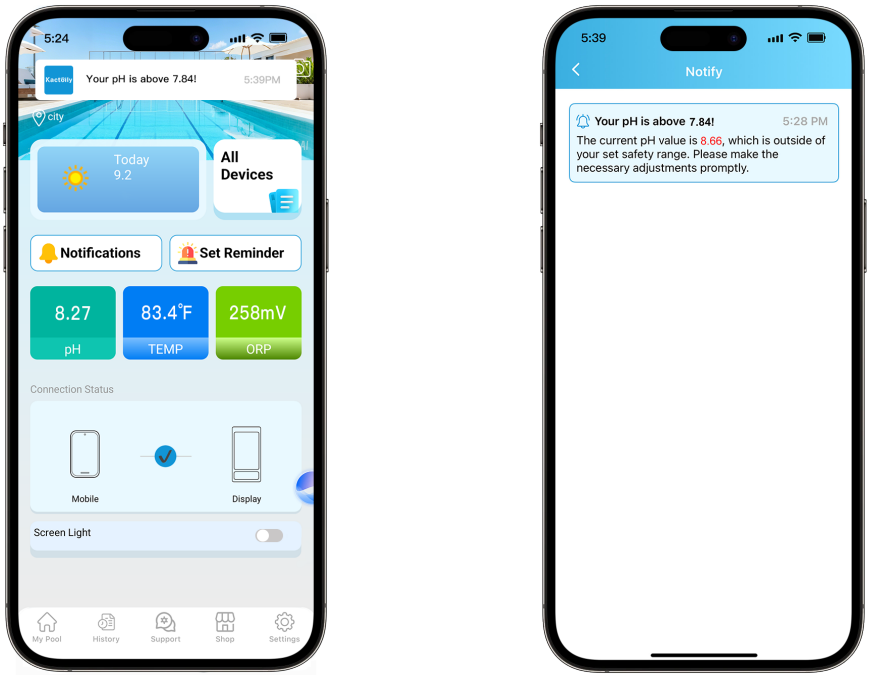
App Features & Device Management

Set Reminder & Notification



1.Set the minimum and maximum pH limits according to your needs, then turn on the pH reminder.

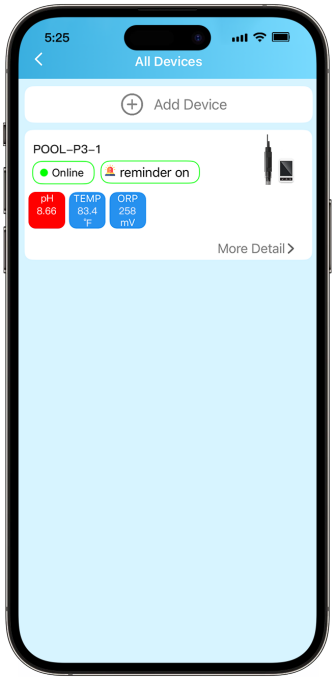
【Please note that entering the 'Set Reminder' screen will be considered as resetting the reminder notification, regardless of whether any changes are made.】



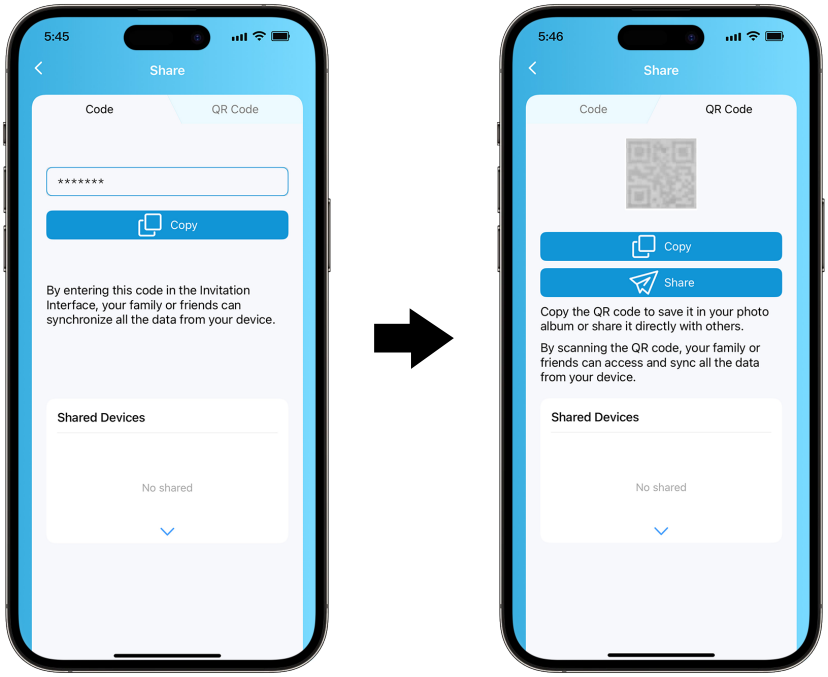
2.After setting a reminder, you will receive a notification if your pool system's pH level is outside the configured range. The notification will also appear in "Notifications."
Note: If the pH level returns to nommal, the notification in "Notifications" will automatically disappear.



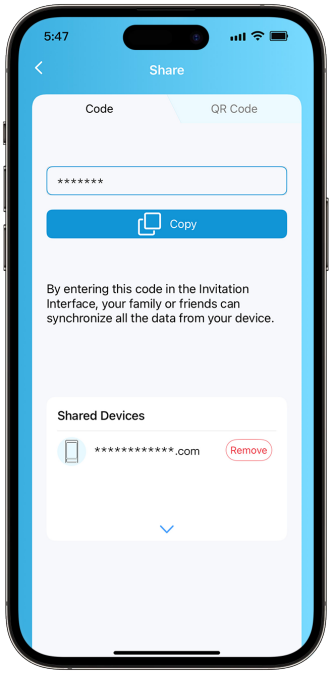
3. Even when you’re not using the app, it will notify you if the pH level is out of range.



Share



1. You can choose to share your device using a code or a QR



2. After sharing successfully, you have the option to remove the shared account.

Display Operation and Settings

Probe–Display Connection Status

The probe and display are factory paired and reconnect automatically when powered on.

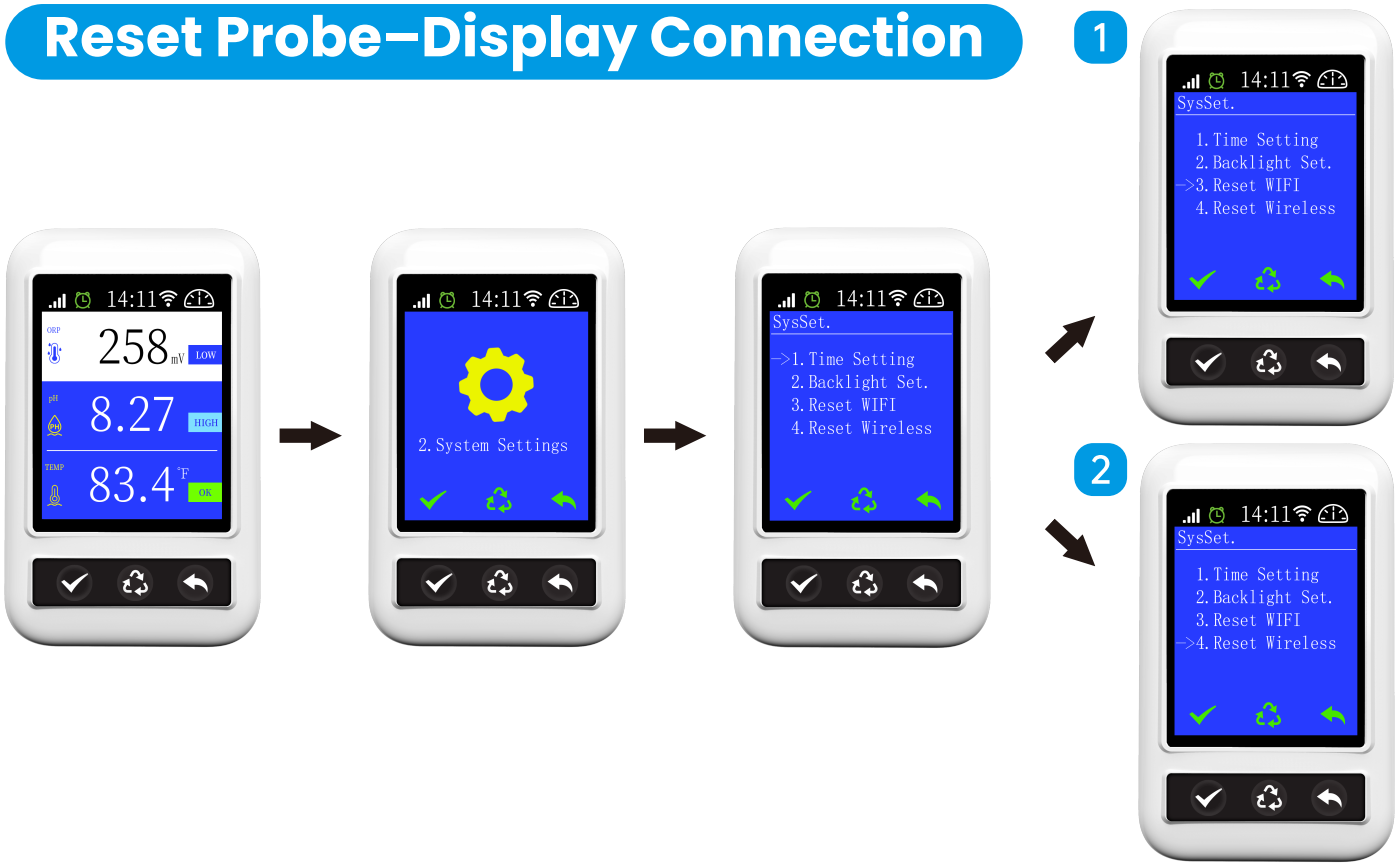
• The wireless signal icon shows the connection strength between the probe and display.

• If the disconnected icon flashes, the probe and display are not connected.

• If the out-of-range icon appears, move the probe and display closer together and wait for them to reconnect.

Display Level	Meaning
	Low
	Medium
	High
	Strong

Reset Probe–Display Connection



How to Access Reset Options

1. From the main data display screen, press twice to select "System Settings".

2. Press to enter the “SysSet.”

3. Press to select the reset option:
(1)Press it twice to select "3. Reset WIFI".

(2)Press it once more to select "4. Reset Wireless".

4. Press to switch to "YES", then press to confirm.

1 Reset Wi-Fi: Display→ Kactoily App

Use when:
• Connecting the display to the App for the first time;
• Changing your Wi-Fi network or password;
• The display cannot reconnect to the App.

After the reset is complete, open the Kactoily App, tap "Add Device", select a 2.4 GHz Wi-Fi network, and follow the on-screen instructions to reconnect the display.

2 Reset Wireless: Probe→Display

The probe and display are factory paired and normally reconnect automatically when powered on.

Use only when:
• Replacing the probe or display;
• The probe and display cannot reconnect automatically.

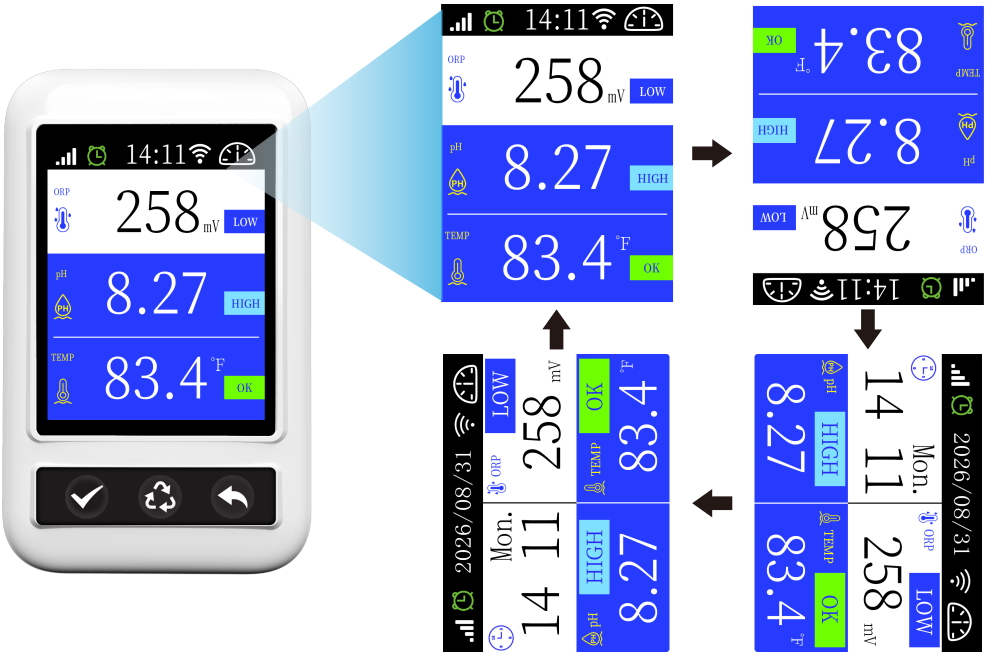
After the reset is complete, restart the probe by disconnecting and reconnecting its power, then wait for the probe to reconnect to the display.

Switch °C / °F



From the main screen, briefly press to switch between °C and °F.

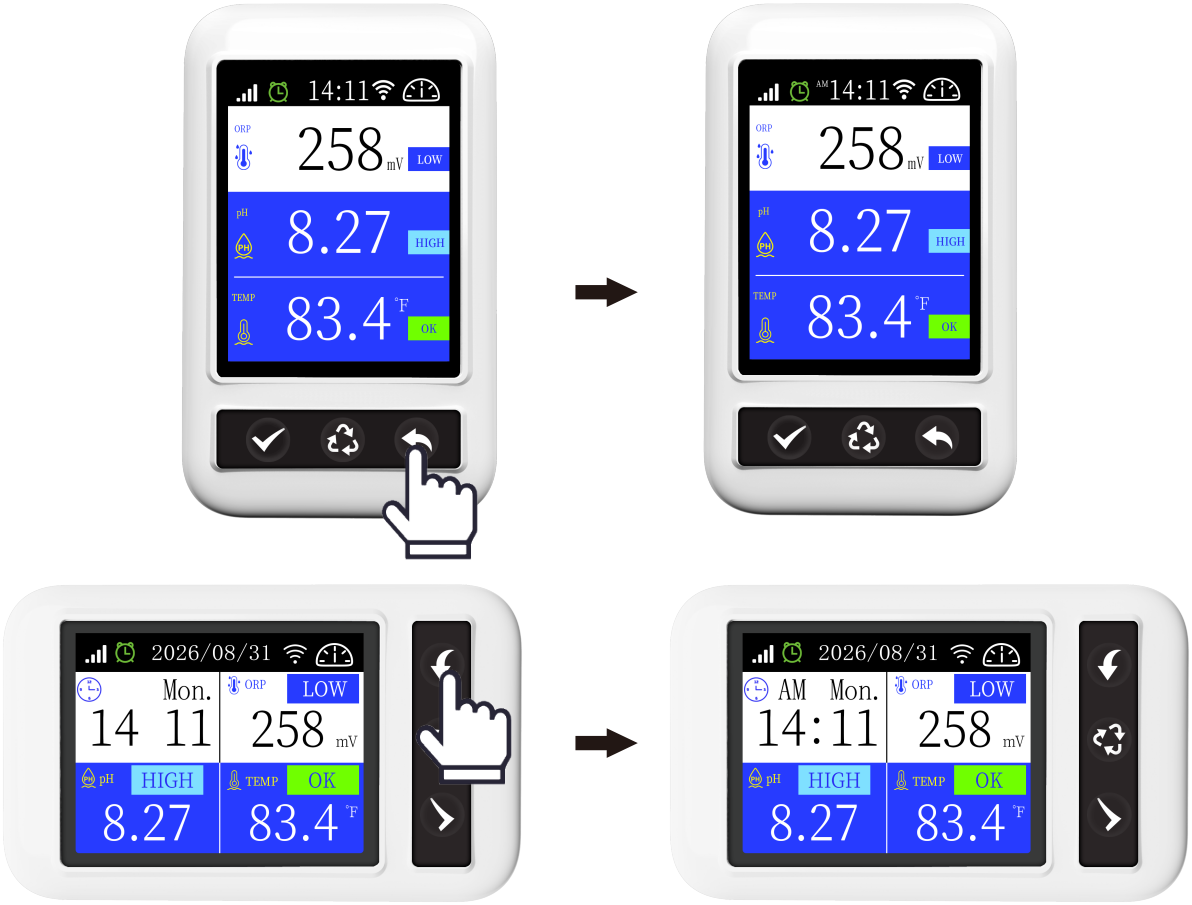
Switch Screen Orientation



From the main screen, press and hold or about 2 seconds to rotate the display.

Repeat to cycle through all four screen orientations.

Switch 12/24-Hour Format



From the main screen, briefly press to switch between 12-hour and 24-hour formats.

Adjust Display Brightness



The display provides 10 brightness levels (1–10).

1. Press to enter the menu.
2. Press to select System Settings, then press .
3. Press to select “2. Backlight Set.”, then press .
4. Use – / + to adjust the brightness.
5. Press to select OK and save.

Time and Date Settings

The date and time can be set automatically or manually.

Automatic Setup — Recommended

When the display is connected to the Kactoily App, the date and time are synchronized automatically.

Manual Setup

Set the date and time directly on the display. No Wi-Fi connection is required.

Available Date Formats:
- Day/Month/Year
- Month/Day/Year
- Year-Month-Day

Automatic Time and Date Setup



1. Press to enter the menu.
2. Press to select System Settings, then press .
3. Press to enter “1. Time Setting”.
4. Use – / + to select Auto Setup, then press to confirm.
5. Use – / + to select the desired date format.
6. Press (OK) to save.

Note: When Auto Setup is enabled, the date and time are synchronized automatically and cannot be adjusted manually.

Manual Time and Date Setup





1. Enter System Settings → 1. Time Setting.
2. Use – / + to select Manual Setup, then press to confirm.
3. Use – / + to select the desired date format, then press .
4. Use – / + to adjust each value. Press to move to the next field: Year → Month → Day → Hour → Minute → Second → Day of Week
5. After all settings are complete, press (OK) to save.

Calibration

Calibration Guidelines

Factory Calibration

The probe is calibrated before shipment. No calibration is required before first use.

When Calibration Is Needed

Calibration may be needed if readings appear inaccurate, the probe has been contaminated, or after extended use. Actual calibration needs may vary depending on water conditions, usage, and maintenance.

Calibration Notice

• All calibration and adjustment functions are performed through the display.
• If the clock icon appears in the upper-left corner, restart the probe by disconnecting and reconnecting the power. After it reconnects, enter the required calibration or adjustment page within 10 minutes.

Three-Point pH Calibration

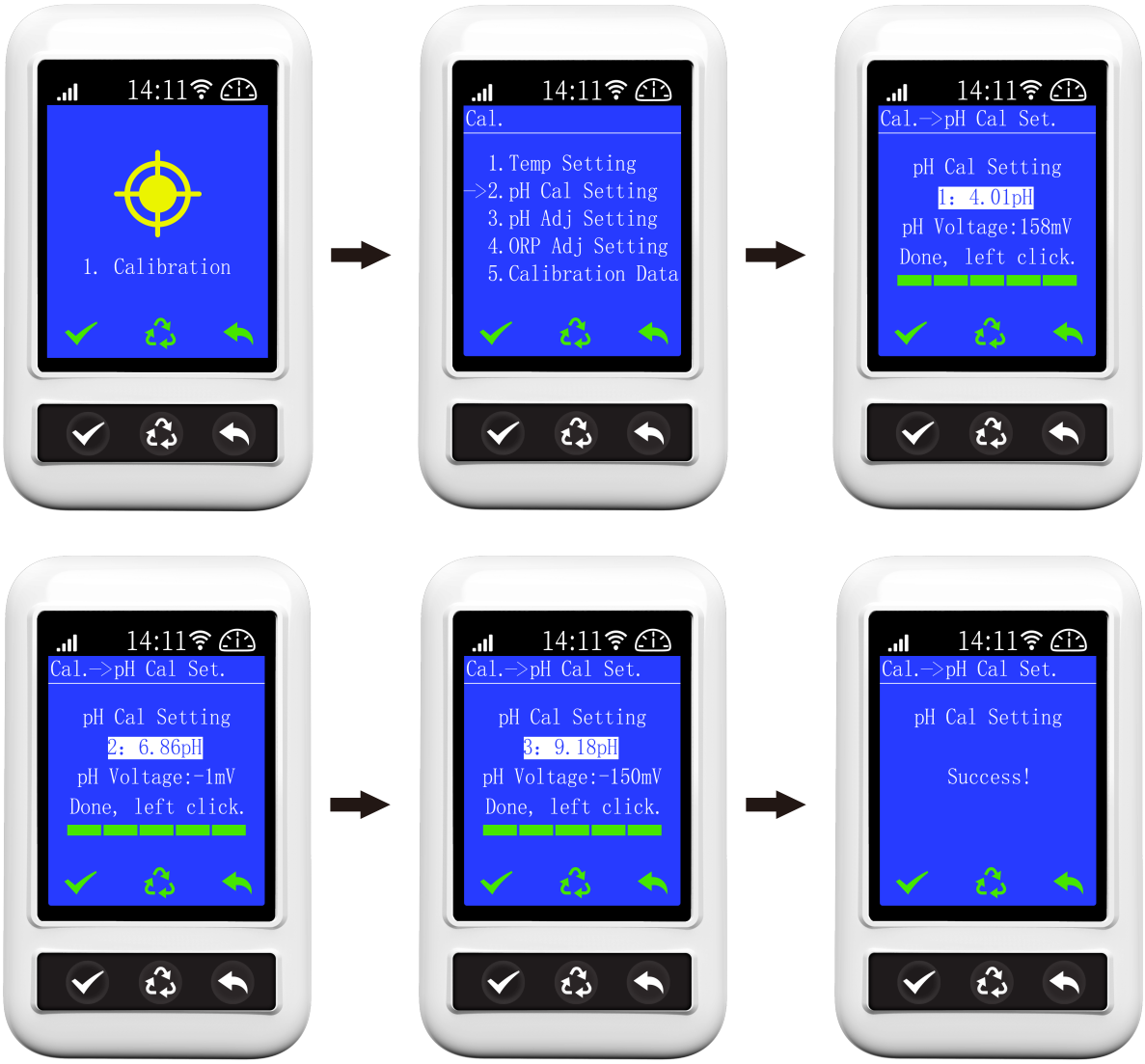
Before Calibration

Calibration Sequence: pH 4.01 → 6.86 → 9.18

• Prepare three clean containers, each with 250 mL of distilled or deionized water. Do not use tap water.
• Completely dissolve the pH 4.01, 6.86, and 9.18 calibration powders separately in the three containers.

Tip: At each calibration point, keep the probe in the corresponding calibration solution while “Calibrating...” is displayed. When “Done, left click.” appears, press ✔ to confirm. Do not remove the

probe while calibration is still in progress.



pH Calibration Steps

1. Press to enter the menu.

2. Press to enter "Calibration" Settings.

3. Press to select “2. pH Cal Setting”, then press .

4. Place the probe in the pH 4.01 calibration solution. Gently swirl it to ensure full contact with the solution, then keep it still. Calibration starts automatically and “Calibrating...” appears on the display.

5. When “Done, left click.” appears, press to confirm. The display automatically advances to pH 6.86.

6. Rinse the probe with distilled or deionized water to remove the previous calibration solution, then gently blot off excess liquid.

7. Repeat Steps 4–6 with the pH 6.86 solution. After confirmation, the display automatically advances to pH 9.18.

8. Repeat the same process with the pH 9.18 solution. When “Done, left click.” appears, press ✓ to confirm.

9. Rinse the probe after calibration. pH calibration is complete.

pH Adjustment



Use this function only when the pH reading shows a consistent difference from a reliable reference measurement.

1. Press ♻ to enter the menu.

2. Press ✓ to enter Calibration Settings.

3. Press ♻ twice to select “3. pH Adj Setting”, then press ✓ .

4. Use (−) or (+) to adjust the pH value as needed.

5. Press (OK) to save the setting.

Note: pH Adjustment is intended for fine-tuning a consistent measurement offset. If the reading is significantly inaccurate, perform pH calibration first.

ORP Calibration



Single-Point Calibration: 256 mV

• Prepare 50 mL of distilled or deionized water. Do not use tap water.

• Completely dissolve the 256 mV ORP calibration powder in the prepared water.

• Restart the probe by disconnecting and reconnecting the power supply, then wait for it to reconnect to the display. Make sure the clock icon is not shown before starting calibration.

ORP Calibration Steps

1. Press to enter the menu.
2. Press to enter Calibration Settings.
3. Press three times to select “4. ORP Adj Setting”, then press .
4. Place the probe in the prepared 256 mV ORP calibration solution. Gently swirl it to ensure full contact, then keep it still.
5. Wait about 180 seconds for the ORP reading to stabilize.
6. Use – / + to adjust the Adj Value until the displayed ORP Value reaches 256 mV.
7. Press (OK) to save the setting.
8. Rinse the probe with distilled or deionized water. ORP calibration is complete.

Tip: Keep the probe in the calibration solution while the reading is stabilizing and during adjustment.

Temperature Adjustment



Tip: Use this function when the displayed temperature shows a consistent difference from a reliable reference thermometer.

1. Press to enter the menu.
2. Press to enter "Calibration" Settings.
3. Press again to enter "Temp Settings".
4. Use – / + to adjust the temperature value.
5. Press to select OK.

Maintenance and Storage

Cleaning and Sensor Care

White KCl residue may appear during first use; this is normal. Disconnect power and rinse with clean water. Do not touch or scratch the sensors or use cleaners, hard brushes, or sharp tools.

Probe Removal and Storage

Disconnect power before removal. Rinse the probe and keep the sensing end in KCl storage solution inside the storage cap. Store the capped probe in a cool, dry place.

Preparing the Probe for Reuse

Rinse the probe, install the floating ring, and reconnect power. Wait for automatic reconnection, then place the probe in water and allow the readings to stabilize.

Cable and Connector Care

Keep cables and connectors dry. Avoid pulling, pinching, sharp bends, and heat. Do not use damaged cables or connectors.

Specifications

Dimensions	Display：215*36mm Probe：232*151mm	
Operating Temperature	-10 ~ 60°C (14-140°F)	
pH (Potential of Hydrogen)	Measurement Range：0-14	
	Recommended Range：7.2-7.8	
	Resolution：0.01	
	Accuracy：±0.1	
Temp (Temperature)	Measurement Range	0-60°C
		32–140°F
	Recommended Range：24 - 30°C (75 - 86°F)	
	Resolution：0.1°C / 0.2°F	
	Accuracy：±1°C（±2°F）	
ORP (Oxidation-Reduction Potential)	Measurement Range：-999mV ~ 999mV	
	Recommended Range：650 - 750 mV	
	Resolution：1mV	
	Accuracy：±30mV	
Power Supply	Display	5 V/1 A, USB Type-C
	Probe	5 V/1 A, USB Type-A
Measurement Interval	Every 10 seconds	

Troubleshooting

Issue Area	Malfunction	Possible Causes	Solutions
Probe & Display Connection	No readings or no connection	The probe is not powered, the power supply is abnormal, or the probe and display are too far apart.	Check the probe power, move it closer to the display, and restart both devices.
Display & App Connection	Cannot connect	The network is not 2.4 GHz, the password is incorrect, power was interrupted, or the router or Wi-Fi password has changed.	Use a 2.4 GHz Wi-Fi network. Reset the display Wi-Fi and set up the connection again. 5 GHz-only networks are not supported.
App Data	No readings	The device is offline, data synchronization is delayed, or the display shows no readings.	Check the display and network connection, then refresh the App.
App Notifications	No notifications	Notifications are disabled or the device is offline.	Enable App notifications and check the device connection.
Probe Placement	Unstable readings	Strong water flow, bubbles, chemical dosing, or insufficient stabilization time.	Move the probe to a calm area and wait for the readings to stabilize.
Measurement Results	Readings differ from other methods	Testing conditions or measurement methods are different. ORP is not a direct measurement of free chlorine.	Compare the results under the same conditions after the readings have stabilized.
Customer Support	Problem remains or the product is damaged	The issue continues after troubleshooting, or the product is damaged.	Tap the floating help button in the App for assistance.

Regulatory and Disposal Information

CE and RoHS

CE Marking
This product complies with the applicable EU requirements and bears the CE marking.

RoHS
This product complies with the substance-restriction requirements of Directive 2011/65/EU and its applicable amendments.

FCC Statement

FCC Statement
This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Warning: Changes or modifcations not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

Note: This equipment has been tested and found to comply with the limits for a Class B digital device pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and usedin accordance with the nstructions, may cause harmful interference to radio communications. However,there is no guarantee that interference will not occur in a particular installation. If this equipment doescause harmfulinterference to radio or television reception, which can be determined by turning theequipment off and on, the user is

encouraged to try to correct the interference by one or more of thefollowing measures:

(1) Reorient or relocate the receiving antenna
(2) Increase the separation between the equipment and receiver.
(3) Connect the equipment into an outlet on a circuit different from that to which the receiver is connected
(4) Consult the dealer or an experienced radio/TV technician for help.

Electronic Waste Disposal

• Disconnect the power cables before disposal. Dispose of the monitor, probe, cables, power adapters, and other electronic accessories through local electronic-waste collection or recycling channels.

• If the device is linked to your Kactoily account, remove it from the account before disposal.

Warranty and Support

Warranty Period

Probe: 6 months Display Unit: 12 months
The warranty period starts from the original date of purchase.

Coverage

The warranty covers defects in materials and workmanship under normal use.

Exclusions

The warranty does not cover damage caused by misuse, accidents, improper installation, unauthorized modification or repair, failure to follow this manual, or normal wear and tear.

Warranty Service

For assistance, tap the floating Help button in the Kactoily App. Please provide your order number, a description of the issue, troubleshooting steps already completed, and photos or videos if applicable.

Kactoily
Know Your Water

RoHS FC CE

Made in China

