USER MANUAL

4-in-1 WiFi Pool Monitor

Please read the instruction manual carefully before use

Our Mission

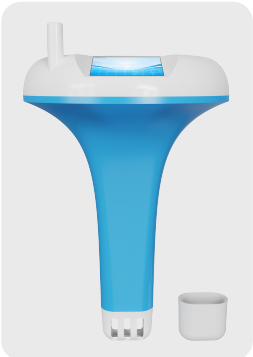
To make water quality management smarter, more reliable, and simpler for families around the world.

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Getting Started

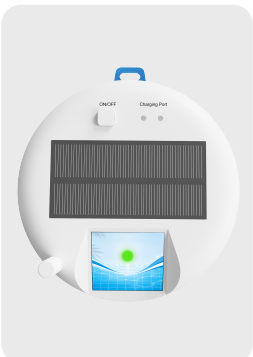
Get Started in Just a Few Minutes
Follow these simple steps to begin monitoring your pool water.



Step 1: Replace the Storage Cap

Replace the sealed storage cap with the perforated protective cap before use.

Important: Keep the sealed storage cap and KCL solution for future storage.



Step 2: Power On the Probe

Press the Power button once.

The indicator light will flash green three times, indicating the probe has powered on successfully.

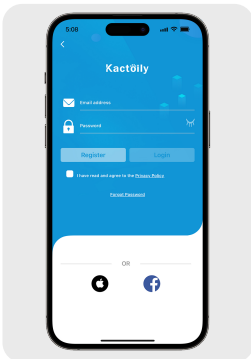


Step 3: Power the Display

Connect the display to a 5V-1A USB power source.

The probe and display will automatically connect after both devices are powered on.

Tip: Keep the probe close to the display during the initial connection.



Step 4: Download the Kactoily App

Download the Kactoily App from the Apple App Store or Google Play Store.



Step 5: Connect to the App

Open the Kactoily App, sign in, and tap Add Device. Only 2.4 GHz Wi-Fi is supported.

Reset Wi-Fi on the display: System Settings → Reset Wi-Fi → YES

Follow the app instructions to complete setup.

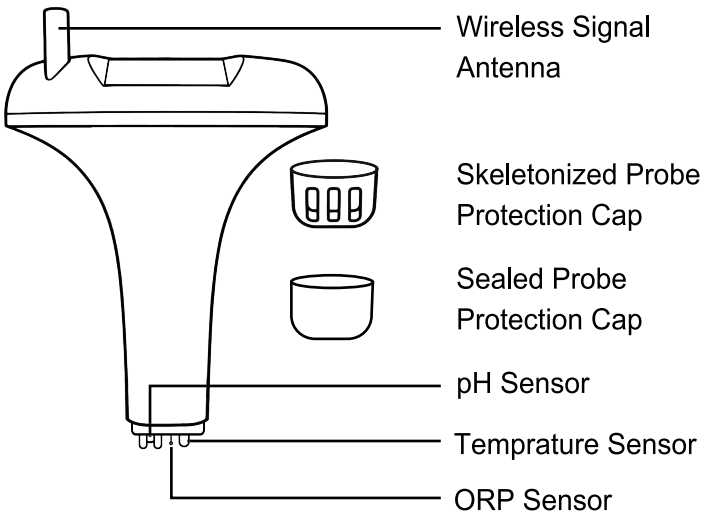


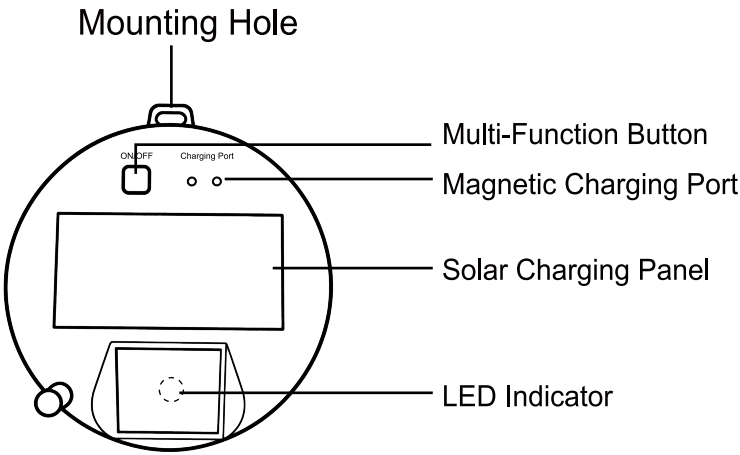
Step 6: Start Monitoring

Place the probe in the pool.

The monitor will automatically begin measuring your pool water, and readings will appear on both the display and the Kactoily App.

Product Overview-Probe

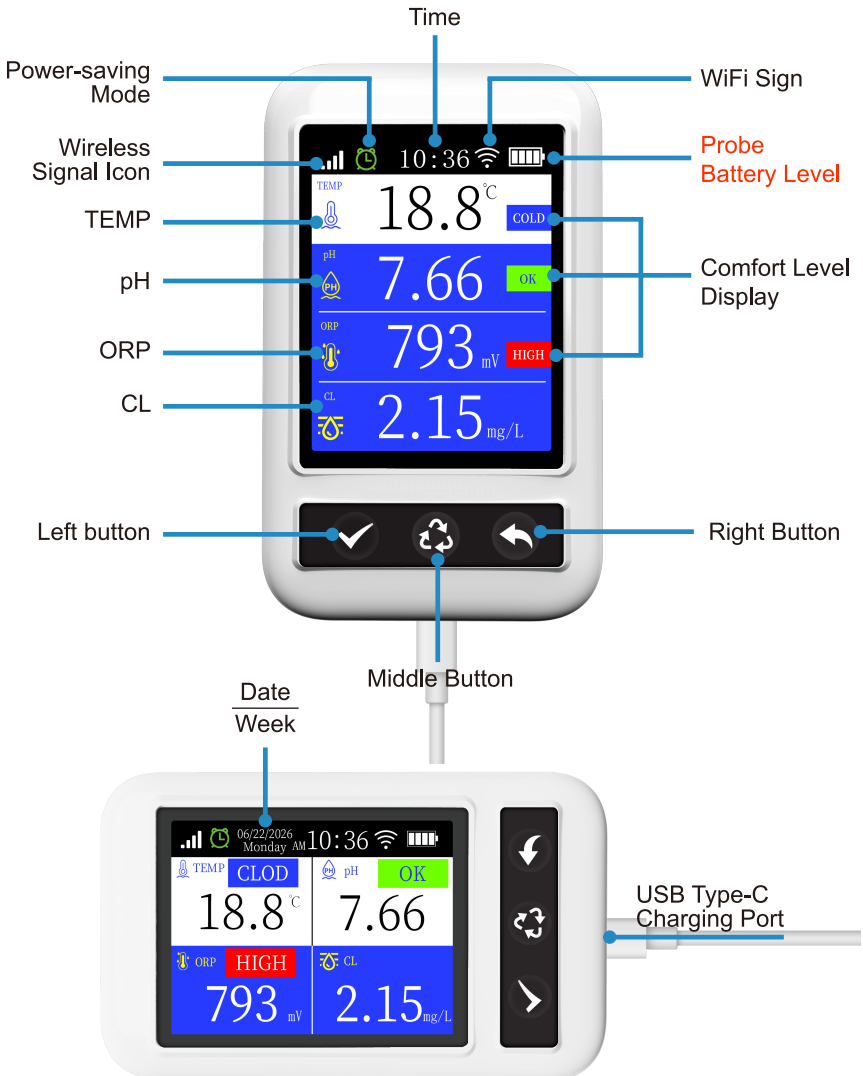




Indicator Status

Device Status / Operation	Indicator Light Status	Description
Power On (Probe)	Green light flashes for three times	When the device is off, short press the button once; the green light flashes three times to turn on the probe.
Power Off (Probe)	Red light flashes	When the device is on, press and hold the button for 3 seconds until the red light flashes to turn off the probe.
Probe & Display Pairing	Blue light continuously flashing	The indicator turns off after pairing, and the display updates. If pairing takes longer than 10 minutes, restart the probe to pair again.
Probe Charging	Solid red light	——
Probe Fully Charged	Solid green light	——

Product Overview-Display



Parameter	Measurement Range	Comfort Level Indication
pH	0-14	OK: 7.2-7.8 LOW: <7.2 HIGH: >7.8
TEMP	0-60°C(32-140°F)	OK: 24-30°C(75.2-86°F) COLD: <24°C(<75.2°F) HOT: >30°C(>86°F)
ORP	-999mV-999mV	OK: 650-750mV LOW: <650mV HIGH: >750mV

Left Button:

1. Home Screen: Short press to toggle between 12-hour and 24-hour formats.

2. Settings Mode: Short press to confirm the selection.

3. Calibration & Adjustment Mode: Short press to decrease the value.

Middle Button:

1. Home Screen: Short press to enter the menu.

2. Menu Mode: Short press to change the selection.

3. Calibration & Adjustment Mode: Short press to confirm the calibration or adjustment.

Right Button:

1. Home Screen: Short press to toggle between °C and °F.

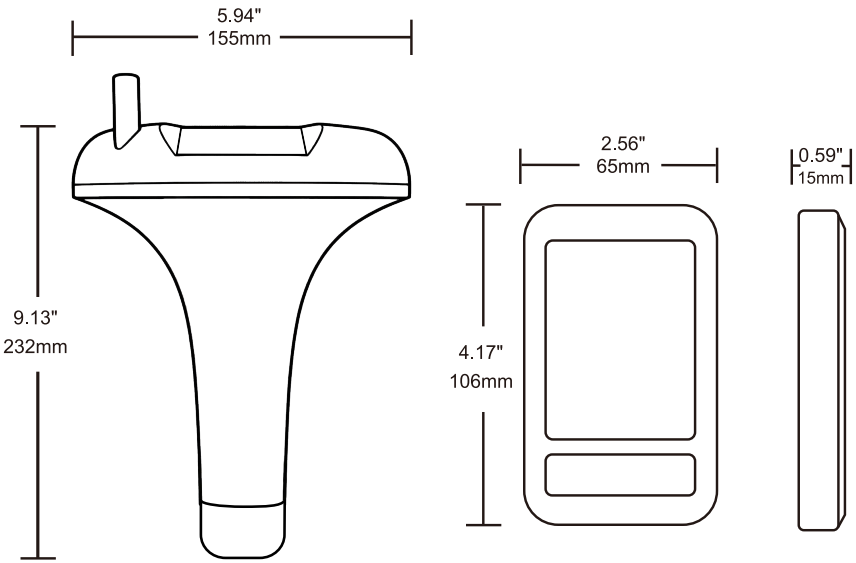
2. Home Screen: Press and hold for about 2 seconds to rotate the display orientation.(supports all four orientations).

3. Menu Mode: Short press to go back.

4. Calibration & Adjustment Mode: Short press to increase the value.

Power-saving Mode: When the "Alarm Clock" symbol appears on the display, the unit is in power save mode,do not perfomm calibration in this mode.If calibration is required, restart the probe and switch it on again (the"Alarm Clock" symbol disappears).

Dimensions & Power Supply



Display： 5V-1A USB Type-C(Continuous power required)
Probe： Rechargeable Lithium Battery(Solar Charging / Magnetic Charging)

Tip: For optimal battery performance, fully charge the probe

before first use. Charging via the magnetic cable takes about 8 hours.

Setup & Installation

Before First Use

Important

1.Keep the display connected to USB power during setup.

2.Only 2.4 GHz Wi-Fi networks are supported.

Installation-Probe



1. Secure the product using a lanyard through the mounting hole.



2. Simply place the device in water to use.

Installation-Display

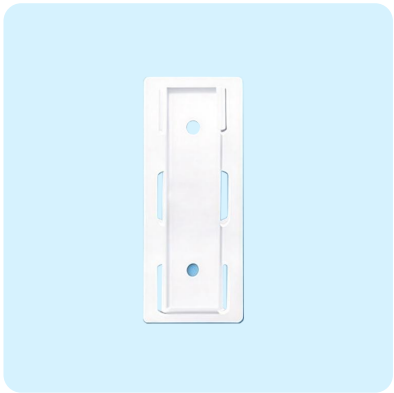
Option One:



1.Remove the sticky adhesive backing film.



2.Glue the bracket to a smooth area.

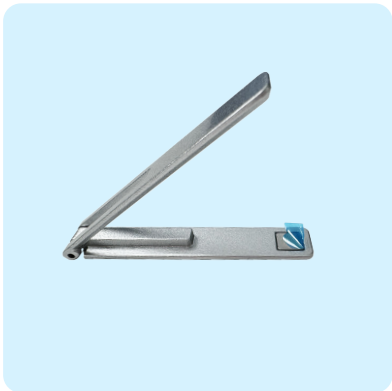


3.Attach the other part of the bracket to the back or side of the display.

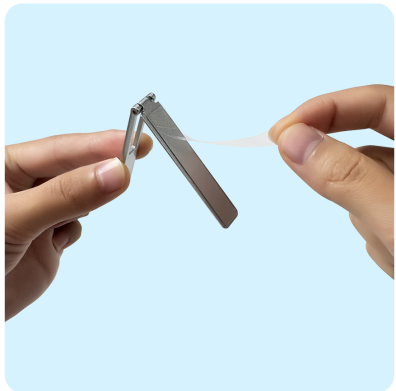


4.Secure the display by running it down the track to the bottom.

Option Two:



1.Unfold the stand.
(Note: Peel off the protective film on the corner magnet to make storage easier later.)



2.Remove the protective film from the adhesive side of the stand.



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



4.You can adjust the angle of the stand as needed.

Daily Operation

Understanding Readings

Learn More About Your Pool Water

Your pool monitor measures four key parameters to help you better understand your pool water conditions.

Parameter	What It Means	Recommended Range
pH	Indicates how acidic or alkaline your pool water is. Proper pH balance helps maintain comfortable water conditions.	7.2 – 7.8
Temperature	Monitors the current pool water temperature for a more comfortable swimming experience.	24 – 30°C (75 – 86°F)
ORP	Measures the oxidation-reduction potential of the water and reflects changes in water oxidation capability.	650 – 750 mV
Chlorine (CL)	Measures free chlorine levels to help you monitor sanitizer balance in your pool.	1 – 3 mg/L

Power On/Off

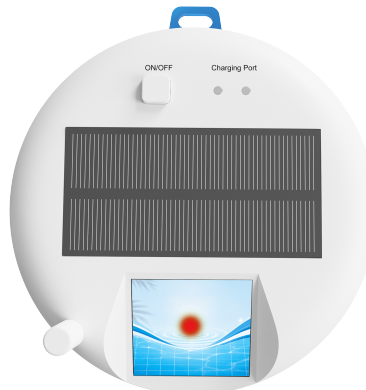
Power On

When the device is off, short press the button once; the green light flashes three times to turn on the probe.



Power Off

When the device is on, press and hold the button for 3 seconds until the red light flashes to turn off the probe.



Connection Between Display & Probe

1, The display and probe are factory paired and will automatically reconnect each time they are powered on.

2, Re-pairing is only required when replacing the display or probe.

3, The wireless signal icon indicates the signal strength between the display and probe.

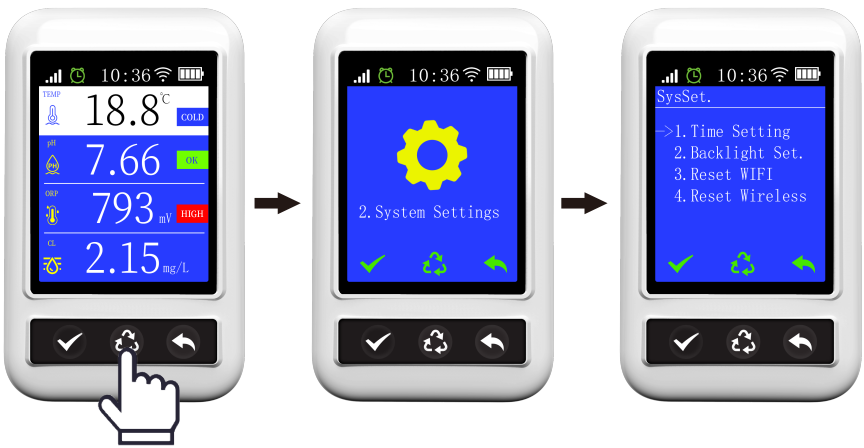
4, If the signal icon  flashes, the display and probe are disconnected.

5, If the out-of-range icon  appears, the display and probe are too far apart. Move them closer to restore the connection.

Display Level	Meaning
	Low
	Medium
	High
	Strong

How to reset the probe-display connection

1. Press the middle button once to enter the menu.
2. Press the middle button again to select System Settings.
3. Press the left button once to confirm.
4. Press the middle button three times to select Reset Wireless Settings.
5. Press the left button once to confirm.
6. Press the middle button to select “Yes” option.
7. Press the left button once to confirm.
8. The display will flash three times, indicating that the wireless connection between the probe and the display has been reset.
9. Turn the probe off, then turn it back on to complete the reset.

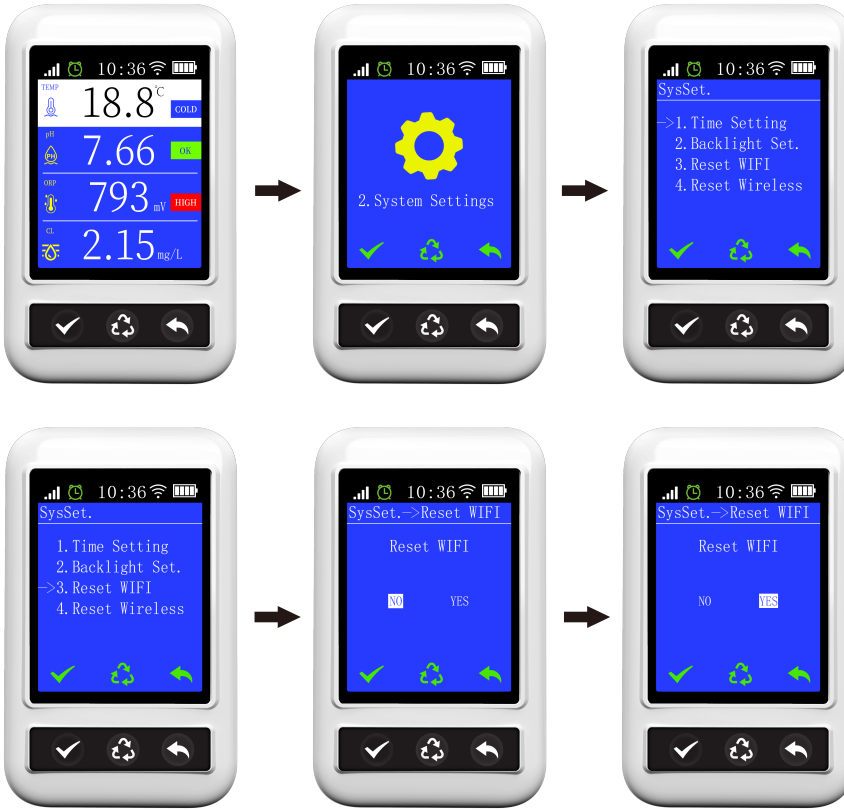




Connection Between Display & WiFi

Note: When connecting to the app for the first time, it is recommended to reset the Wi-Fi connection before proceeding.

1. Press the middle button once to enter the menu.
2. Press the middle button again to select System Settings.
3. Press the left button once to confirm.
4. Press the middle button twice to select Reset Wi-Fi Settings.
5. Press the left button once to confirm.
6. Press the middle button to select “Yes” option.
7. Press the left button once to confirm.
8. The display will flash three times, indicating that the Wi-Fi settings have been reset successfully.
9. Reopen the app and reconnect the probe to Wi-Fi.



Understanding Wireless Settings

The display provides two reset options for different connections.

1.Reset WiFi

Use for: Display ↔ Kactoily App

Use this option when connecting to the App for the first time or

after changing your Wi-Fi network.

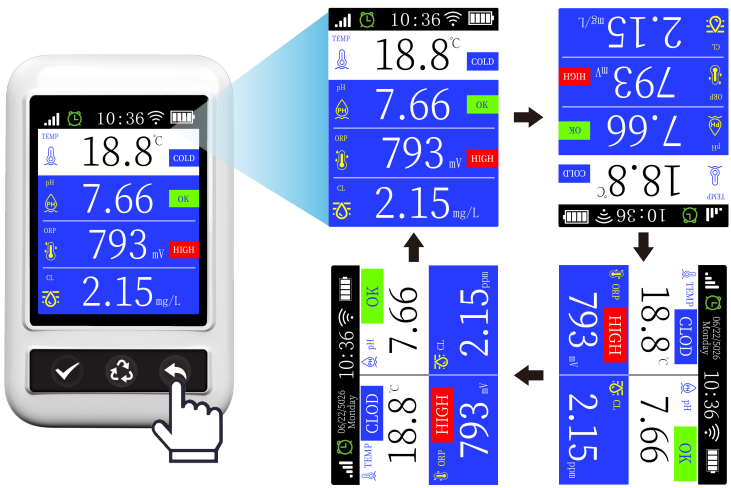
2.Reset Wireless
Use for: Probe ↔ Display

The probe and display are factory paired and reconnect automatically during normal use.

Only use this option when replacing the probe or display, or if they cannot reconnect.

Switch Screen Orientation

Press and hold for about 2 seconds to rotate the display orientation.(supports all four orientations).



Toggle Between °C and °F

Press the right button briefly to toggle between °C and °F (available in both portrait and landscape modes).



Toggle 12/24-hour Format

Press the left button briefly to switch between 12-hour and 24-hour formats (available in both portrait and landscape modes).



Display Backlight Settings

1. Press the middle button once to enter the menu.
2. Press the middle button again to select System Settings.
3. Press the left button once to confirm.
4. Press the middle button once to select Backlight Settings.
5. Press the left button once to confirm.
6. Press the left (-) or right (+) button to adjust the backlight brightness. Ten brightness levels (1–10) are available.
7. Press the middle button to save the setting.



Time and Date Settings

Note: The date and time can be set automatically or manually.

1.Automatic Setup: Connect the display to the app and enable Automatic Setup. The display will synchronize the date and time automatically. Manual adjustment is unavailable while Automatic Setup is enabled.

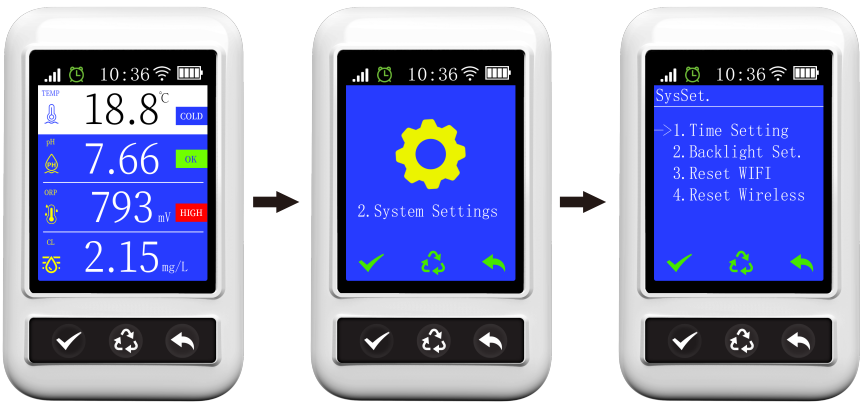
2.Manual Setup: Set the date and time directly on the display. No Wi-Fi connection is required.

Automatic Time and Date Setup

1. Press the middle button once to enter the menu.
2. Press the middle button again to select System Settings.
3. Press the left button once to confirm.
4. Press the left button again to confirm and enter Time Settings.
5. Press the left (-) or right (+) button to select Auto Setup.
6. Press the middle button to confirm and open the Date Format setting.
7. Press the left or right buttons ("-" /"+") to select the desired date format.

Note: We offer three date formats to choose from: Day/Month/Year, Month/Day/Year, and Year-Month-Day.

8. Press the middle button to save the setting.





Manual Time and Date Setup

1. Follow the same steps as above to enter Time Settings.
2. Press the left (-) or right (+) button to select Manual Setup.
3. Press the middle button to confirm and open the Date Format setting.
4. Press the left or right buttons ("-" /"+") to select the desired date format.



Note: We offer three date formats to choose from: Day/Month/Year, Month/Day/Year, and Year-Month-Day.

5. Press the middle button to confirm and enter the Date and Time Settings. The year field is selected automatically.

6. Press the left (-) or right (+) button to adjust the year.

7. Press the middle button to proceed to the month field.

8. Press the left (-) or right (+) button to adjust the month.

9. Press the middle button to proceed to the day field.

10. Press the left (-) or right (+) button to adjust the day.



11. Press the middle button to proceed to the hour field.

12. Press the left (-) or right (+) button to adjust the hour.

13. Press the middle button to proceed to the minute field.

14. Press the left (-) or right (+) button to adjust the minute.

15. Press the middle button to proceed to the second field.

16. Press the left (-) or right (+) button to adjust the second.

17. Press the middle button to proceed to the day of the week field.

18. Press the left (-) or right (+) button to select the day of the week.

19. Press the middle button to save the setting.



Maintenance

Maintenance & Storage

Keep Your Pool Monitor Performing at Its Best

Regular maintenance helps maintain measurement accuracy and extends the service life of your pool monitor.

1. Clean the Probe Regularly
Rinse the probe with clean water after use to remove any residue or buildup.
If needed, gently clean the probe surface with a soft brush.
Avoid using abrasive materials that may damage the sensors.

2. Keep the Probe Hydrated
The probe sensors must remain hydrated when stored. Fill the sealed storage cap with KCL solution and install it securely before storage.

3. Long-Term Storage
If the monitor will not be used for an extended period:
(1)Remove the probe from the pool.
(2)Clean and dry the outside of the device.
(3)Store the probe with KCL solution in the sealed cap.
(4)Keep the device in a cool, dry place.

4. Winter Storage
During the off-season or winter months, remove the monitor from the pool and store it properly to protect the sensors from damage.

5. Important
(1)Do not allow the probe sensor to dry out during storage.
(2)Do not store the probe without KCL solution for long periods.
(3)Do not use alcohol or harsh chemicals to clean the probe.
(4)Always reinstall the sealed storage cap when the probe is not in use.

Calibration

Factory Calibration:
The probe has been calibrated before shipment. No calibration is required before first use.

When Calibration Is Needed:
Calibration is recommended based on local water conditions, probe usage, and maintenance conditions. If the probe is contaminated or the readings appear inaccurate, calibration

can be performed to restore measurement accuracy.

Calibration Frequency:

Parameter	Recommended Calibration Interval
pH	Once every 6 months
ORP	Once every 6 months
CL	Automatically calibrated after pH and ORP calibration

Calibration Notice:
Enter the calibration page on the display within 10 minutes after powering on the probe to prevent the probe from entering power-saving mode.

When the alarm clock icon appears on the display, the probe is in power-saving mode. Restart the probe and wait for it to reconnect automatically. After reconnection, enter the calibration page and complete calibration within 10 minutes.

Temperature Adjustment

1. Press the middle button once to enter the menu.

2. Press the left button to confirm and enter the Calibration Settings.

3. Press the left button again to confirm and enter the Temperature Settings.

4. Press the left (-) or right (+) button to adjust the temperature value.

5. Press the middle button to save the setting.



pH Calibration

1.Prepare three 250 ml glasses of purified water with no minerals or distilled water. Do not use tap water.

2.Completely dissolve the pH 4.01, 6.86, and 9.18 calibration powders in the three glasses of prepared water.

3.Open the top cover of the probe.

4.Turn the probe off, then turn it back on.

5. Once the probe is successfully connected to the display and no clock symbol is showing,start calibration.

Note: During the calibration process, the yellow indicator light flashes to indicate that pH calibration is in progress.

Three-point pH Calibration (4.01-6.86-9.18)

Tip: After each calibration point, wait until the reading stabilizes and the indicator turns green, then press the **left button** to confirm. **Do not remove the probe before confirmation.** After confirmation, clean the probe and place it into the next calibration solution.

1. Press the middle button once to enter the menu.

2. Press the left button to confirm and enter Calibration Settings.

3. Press the middle button once to select pH Calibration Settings.

4. Press the left button again to confirm and enter the pH 4.01 calibration.

5. Put the probe into the pH 4.01 calibration solution, gently shake it to ensure full contact with the solution, then wait for the reading to stabilize. The device will automatically perform the calibration.

6. When the message "Done, left click." appears on the display and the ✔ turns green, press the left button once to confirm the pH 4.01 calibration. The display will then automatically switch to the pH 6.86 calibration page.

7. Clean the probe in neutral water or purified water and gently wipe off any remaining liquid.

8. Put the probe into the pH 6.86 calibration solution, gently shake it to ensure full contact with the solution, then wait for the reading to stabilize. The device will automatically perform the calibration.

9. When the message "Done, left click." appears on the display and the ✔ turns green, press the left button once to confirm the pH 6.86 calibration. The display will then automatically switch to the pH 9.18 calibration page.

10. Clean the probe again as before and wipe off any remaining liquid.

11. Put the probe into the pH 9.18 calibration solution, gently shake it to ensure full contact with the solution, then wait for the reading to stabilize. The device will automatically perform the calibration.

12. When the message "Done, left click." appears on the display and the ✔ turns green, press the left button once to confirm the pH 9.18 calibration. The display will then automatically switch to the success page.

13.Clean the probe as before.

14. pH calibration completed.





pH Adjustment

Feel free to adjust the measurement directly on the monitor if it shows a difference from other pH testing products.

1. Press the middle button once to enter the menu.
2. Press the left button to confirm and enter Calibration Settings.
3. Press the middle button twice to select pH Adjustment Settings.
4. Press the left button once to confirm.
5. Press the left or right buttons ("-" /"+") to adjust the value as needed.
6. Press the middle button to save the setting.



ORP Adjustment

1.Prepare 50 ml purified water with no minerals or distilled water. Do not use tap water.

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

3.Remove the protective cover from the probe.

4.Turn the probe off, then turn it back on.

5. Once the probe is successfully connected to the display and no clock symbol is showing,start calibration.

6. Follow the same steps as above to enter Calibration Settings.

7. Press the left button once to confirm.

8. Press the middle button three times to select ORP Adjustment Settings.

9. Press the left button once to confirm.

10. Wait for 180 seconds until the reading stabilizes, the current measured value will be displayed.

11. If adjustment is needed, press the left or right buttons ("-" /"+") to adjust the value to 256, then press the middle button to save your setting.





Support

Troubleshooting

Solve Common Issues Quickly

If you experience any issues, check the solutions below before contacting support.

1.Cannot Power On or Charge

Possible Cause: The probe battery is low, the probe has entered low-power mode after a long period of inactivity, or the magnetic charging connection is not working properly.

Solution: Charge the probe using the magnetic charging cable. Press the power button once to restart the probe.
If charging fails, clean the magnetic charging contacts and make sure there is no dirt, oxidation, or debris affecting the connection.

2.Cannot Connect to Display

Possible Cause: The probe and display are too far apart, or the probe has entered low-power mode.

Solution: Make sure you are using a 2.4 GHz Wi-Fi network. Reset wireless settings on the display and try connecting again.

3.App Cannot Find Device

Possible Cause: Bluetooth is disabled, or the device is not ready for pairing.

Solution: Enable Bluetooth, open the Kactoily App, tap Add Device, and follow the connection steps.

4.Wi-Fi Connection Failed

Possible Cause: The Wi-Fi network is not supported, or the display Wi-Fi settings need to be reset.

Solution: Make sure you are using a 2.4 GHz Wi-Fi network. Reset wireless settings on the display and try connecting again.

5.Unstable or Inaccurate Readings

Possible Cause: The probe may be dirty, dry, or the readings have not stabilized after being placed in water.

Solution: Clean the probe, keep it hydrated, and wait for the readings to stabilize. Recalibrate if needed.

6.Incorrect Readings After Long-Term Storage

Possible Cause: The probe may be dirty, dry, or the readings have not stabilized after being placed in water.

Solution: Soak the probe in KCL storage solution before use.

7.Need More Help?

For additional troubleshooting steps, setup guides, and product support, please visit the Support section in the Kactoily App.

Helpful Tips

1. Why are there white marks or crystals on the probe when I receive the product? Has it been used?

No. The product has not been used.
The white marks are caused by the KCL storage solution used to keep the pH sensor hydrated during storage. As the solution evaporates, small crystals may form on the probe surface.
Simply rinse the probe gently with clean water before use. This is normal and will not affect product performance.

2. Can the probe remain in the pool for continuous monitoring?

Yes. The probe is designed for continuous pool monitoring. For the best performance, clean the probe regularly and inspect it periodically. If the pool will not be used for an extended period (such as during winter), remove the probe and store it properly.

3. Why do the readings change after adding pool chemicals?

Pool chemicals need time to dissolve and circulate evenly throughout the water.
For more accurate readings, wait until the chemicals are

fully mixed before checking the water. Avoid placing the probe directly near areas where chemicals have just been added.

4. What does the battery icon on the display indicate?

The battery icon shows the current battery level of the probe.
When the battery level is low, recharge the probe using the magnetic charging cable or place it under sufficient sunlight to maintain normal operation.

5. Why doesn't solar charging seem to work?

Solar charging performance depends on available sunlight. For the best charging performance:

(1) Place the solar panel in direct sunlight.
(2) Keep the solar panel clean.
(3) Avoid shaded locations.
If sunlight is insufficient for an extended period, recharge the probe using the included magnetic charging cable.

6. Can the monitor be used in highly acidic or alkaline water?

No. This monitor is designed for normal swimming pool and spa water.
Prolonged exposure to highly acidic or highly alkaline solutions may damage the probe and reduce its service life.

7. How can I extend the service life of the probe?

To help maintain measurement accuracy and extend the life

of the probe:
(1) Clean the probe regularly.
(2) Keep the sensor hydrated during storage using the provided KCL storage solution.
(3) Avoid dropping or striking the probe.
(4) Store the probe indoors during extended periods of non-use or freezing weather.

Note: Even highly precise instruments may have minor errors. If results are near the limit or outside the expected range, please retest using other equipment, recalibrate, or contact us if needed.

Additional Probe Indicator Status

Device Status / Operation	Indicator Light Status	Description
Probe & Display Pairing (Battery > 5%)	Blue light continuously flashing	Indicator light turns off upon successful probe–display pairing. If no connection is established within 10 minutes, the probe enters low-power mode. Restarting the probe re-enters pairing mode.
Probe & Display Pairing (Battery ≤ 5%)	Red light continuously flashing	
Probe & Display Data Transmission After Connection (Battery > 5%)	Blue light flashes once	Each flash indicates one data transmission.
Probe & Display Data Transmission After Connection (Battery ≤ 5%)	Red light flashes once	
Calibration Mode (pH only)	Yellow light continuously flashing	——
Button Test	Green light flashes once	When powered on, short press the button once. A single green flash indicates normal operation; no flash indicates a button fault.

Specifications

Dimensions	Display：65*15*106mm Probe：232*151mm	
Operating Temperature	0–60°C (32–140°F)	
pH (Potential of Hydrogen)	Measurement Range：0-14	
	Resolution：0.01	
	Accuracy：±0.1	
Temp (Temperature)	Measurement Range	0-60℃
		32–140°F
	Resolution：0.1	
	Accuracy：±1℃（±2℉)	
ORP	Measurement Range：-999mV～999mV	
	Resolution：1	
	Accuracy：±30mV	
CL	Measurement Range：0-4ppm	
	Resolution：0.01	
Power Supply	Display	5V 1A / USB Type-C
	Probe	Lithium Battery
Measurement Interval	First 10 minutes after power-on	Every 10 seconds
	After the first 10 minutes	Every 2 minutes

Water Testing
Has Never Been Easier

RoHS FC CE

Made in China

