

USER MANUAL



Pool Monitor

Please read the instruction manual carefully before use

Our Mission

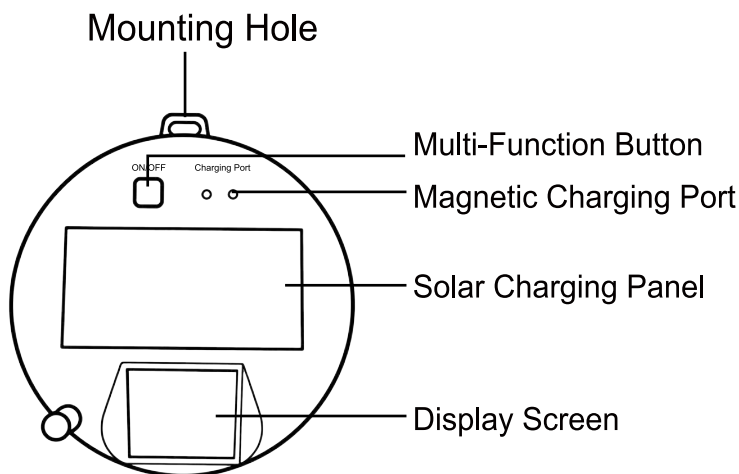
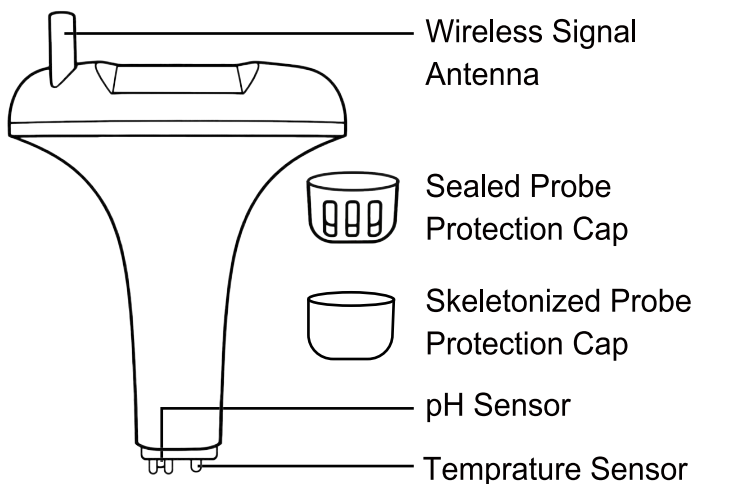
To make water quality management smarter,
more reliable, and simpler for families around the
world.

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Product Information

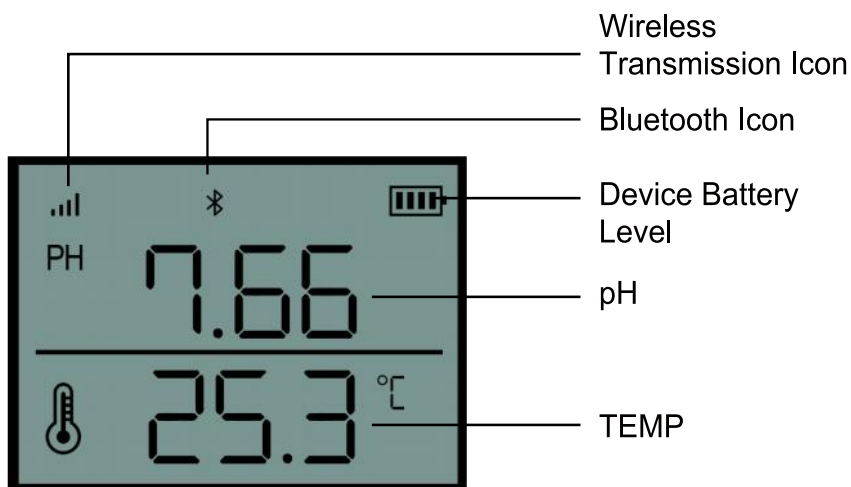
Probe



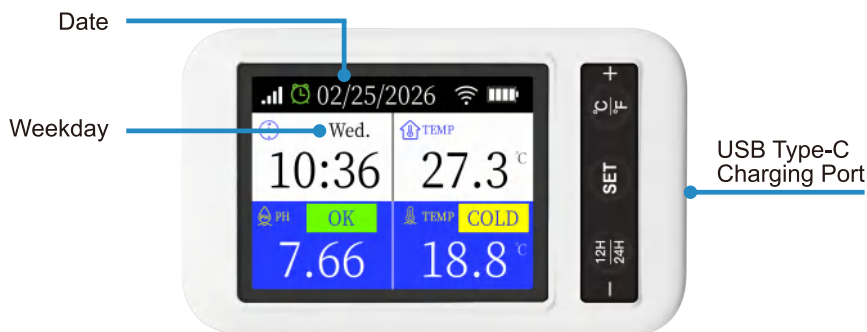
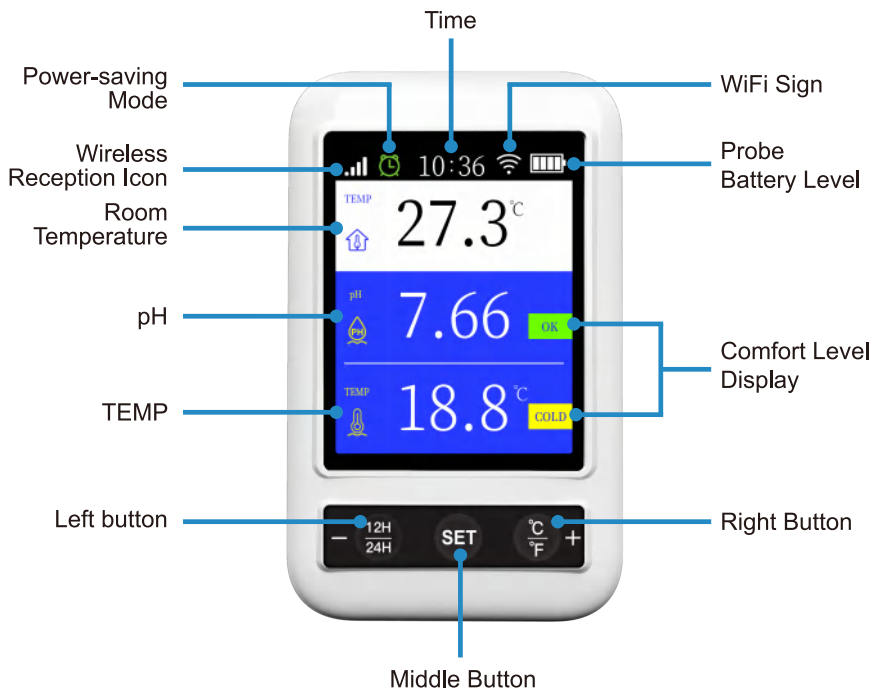
☐ Multi-Function Button Functions

- 1.Power On -- Press the button once while the device is off.
- 2.Power Off -- Press and hold the button for 3 seconds while the device is on.
- 3.Display Backlight -- Press the button once while the device is powered on.
- 4.Temperature Units Switching -- Press and hold the button for 5 seconds while the device is powered off.

Probe Display



Display



Parameter	Measurement Range	Comfort Level Indication
pH	0-14	Green(OK): 7.2-7.8 Yellow (Low): <7.2 Cyan(High): >7.8
TEMP	0-60°C(32-140°F)	Green(OK): 24-30°C(75.2-86°F) Yellow(Cold): <24°C(<75.2°F) Red(Hot): >30°C(>86°F)

Button Functions

Left Button:

1. Short press: Toggle 12/24-hour format
2. Long press (about 2 seconds): Turn off the display
Note: Short pressing any of the three buttons will turn the display back on. Turning off the screen does not affect data collection or analysis.
3. In setting mode: Decrease value (–)

Middle Button:

1. Short press: Enter Time and Date Adjustment Mode
Note: In portrait mode, only the time can be adjusted.
In landscape mode, both the time and date can be adjusted. The date format can be switched between three different year–month–day display options.
2. Long press (about 6 seconds): The screen flashes three times, resetting Wi-Fi and the probe-display connection.

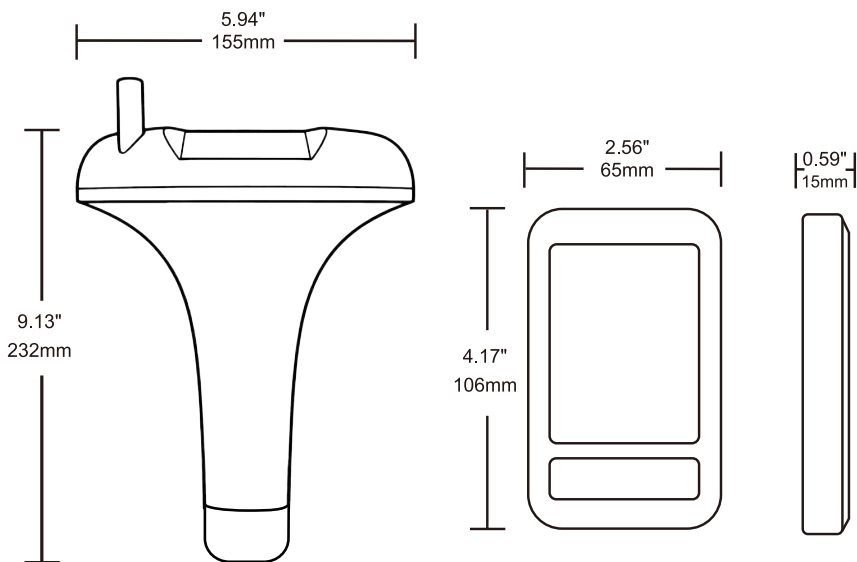
Right Button:

1. Short press: Toggle between °C and °F
2. Long press (about 2 seconds): Switch screen orientation (all four directions supported).

3. In setting mode: Increase value (+)

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

Product Size



Product Setup

Probe



1. Make sure to replace the sealed probe protective cover with the perforated one before use.



2. Press the button once while the device is off to turn it on.



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



4. Simply place the device in water to use.

Display

Option One:



1.Remove the sticky adhesive backing film.



2.Glue the bracket to a smooth area.

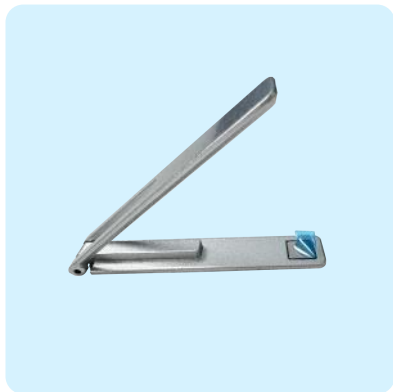


3.Attach the other part of the bracket to the back or side of the display.



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.

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	
	Recommended Range: 7.2-7.8	
Temp (Temperature)	Measurement Range	0-60°C
		32–140°F
	Resolution: 0.1	
	Accuracy: $\pm 1^{\circ}\text{C}$ ($\pm 2^{\circ}\text{F}$)	
	Recommended Range	24-30°C
		75–86°F
Power Supply	Display	5V 1A / USB Type-C
	Probe	Lithium Battery
Test Frequency	Within 3 minutes after power-on	Every 10 Seconds
	After 3 minutes of power-on	Every 2 Mins

Connection Between Display & Probe

1. The display and the probe are paired at the factory and will automatically connect upon first use. If the  keeps flashing, it indicates that the probe and the display are disconnected. If the  appears, it means the probe and the display have exceeded the maximum connection distance. Simply shorten the distance between the probe and the display to reconnect.

2. The wireless reception icon on the display indicates the signal strength between the probe and the display. The signal strength is displayed in four levels to help users quickly evaluate the connection status.

Display Level	Meaning
	Low
	Medium
	High
	Strongest

How to reset the probe-display connection

1. Long press the middle button until the screen flashes three times (Please keep both the display and the probe powered on during the restoration process).

2. Power off the probe, then power it on again to complete the connection.

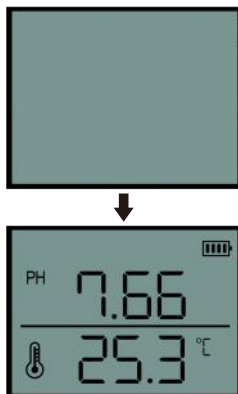
Note: This operation will not affect any of your other settings or calibrations, you only need to reconnect to Wi-Fi.

Basic Operation

Probe: Power On/Off

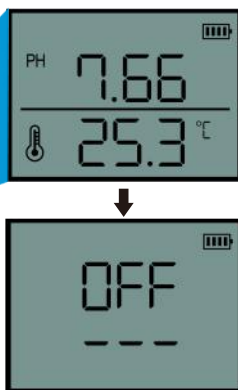
Power On

Press the button once while the device is off.



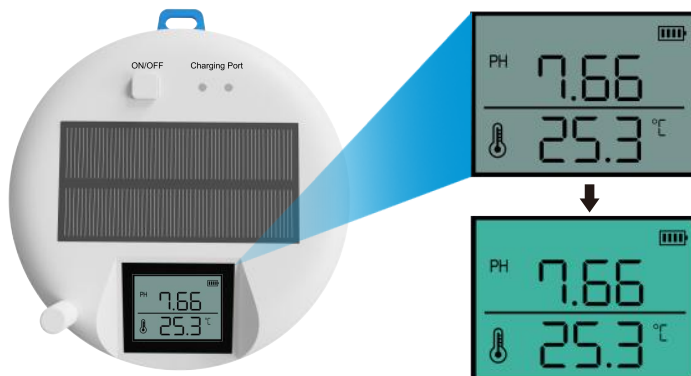
Power Off

Press and hold the button for 3 seconds while the device is on. When "OFF" appears on the screen, release the button.



Probe: Display Backlight

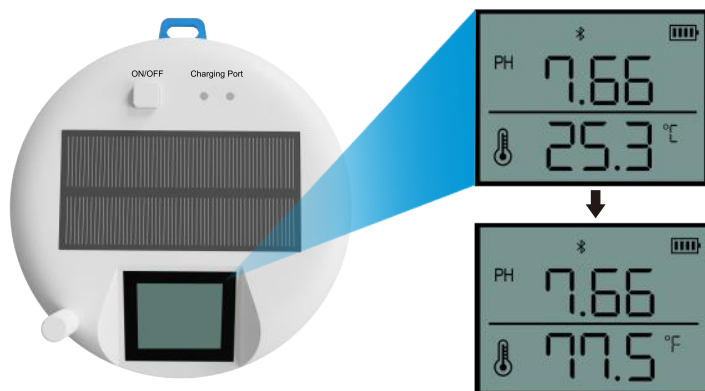
Press the button once while the device is powered on.



Note: If there is no operation for 10 seconds, the screen will automatically dim.

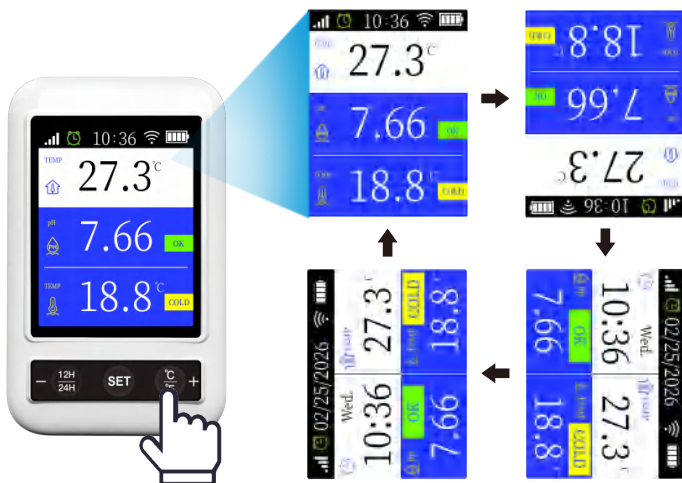
Probe: Temperature Units Switching

Press the button for 5 seconds while the device is powered off.



Display: Switch Screen Orientation

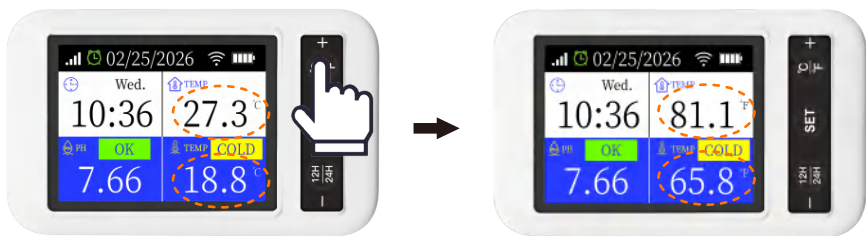
Press and hold the right for about 2 seconds to switch the screen orientation (all four directions are supported).



Display: Toggle between °C and °F

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





Display: 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: Turn off the display

Press and hold the left button for 2 seconds to turn off the display (available in both portrait and landscape modes).

Note: Short pressing any of the three buttons will turn the display back on. Turning off the screen does not affect data collection or analysis.



Display: Time and Date Settings

This device provides two modes: A Mode and H Mode.

In A Mode, when the display is connected to Wi-Fi, the device automatically synchronizes the date and time with the network

server. Even if the date or time is manually changed, it will automatically revert to the network-synchronized time after about one minute.

If you need to adjust the date and time manually, first switch to H Mode while the device is in landscape orientation, and then perform the manual setting.

Note: The device is set to A Mode by default at the factory. Unless necessary, it is recommended to keep this mode and avoid switching to H Mode for manual adjustment.

How to Switch Between A Mode and H Mode



1. Adjust the display to landscape mode, then press the middle button. "A" will appear on the screen.
2. Press the middle button four times until A Mode is selected.
3. Press the right or left button once to switch to H Mode.
4. Press the middle button once to confirm.

In landscape mode, both the time and date can be adjusted. The date format can be switched between three different year-month-day display options.



1. Press the middle button to enter adjustment mode. "H" will appear, meaning you can adjust the time, and the hour digits will be selected.
2. Press the left or right button ("-" / "+") to adjust the hour.
3. Press the middle button to confirm and move to the minute tens digit.
4. Press the left or right button ("-" / "+") to adjust the minute tens digit.
5. Press the middle button to move to the minute units digit.
6. Press the left or right button ("-" / "+") to adjust the minute units digit.
7. Press the left or right button ("-" / "+") to adjust the minute units digit.
8. Press the middle button to proceed to the date format setting.
9. 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.

10. Press the middle button. The screen will return to "H", indicating that all settings have been confirmed.

11. Press the middle button once more to exit adjustment mode. The "H" indicator will disappear.

In portrait mode, only the time can be adjusted.



1. Press the middle button once to enter time adjustment mode. The hour digits will be selected.

2. Press the left or right button ("—" / "+") to adjust the hour.

3. Press the middle button to confirm and move to the minute tens digit.

4. Press the left or right button ("—" / "+") to adjust the minute tens digit.

5. Press the middle button to move to the minute units digit.

6. Press the left or right button ("—" / "+") to adjust the minute units digit.

7. Press the middle button once more to confirm and save the settings.

pH Calibration

pH calibration must be performed in the mobile app. After the probe is powered on, it enters Bluetooth pairing mode for 3 minutes (Bluetooth icon flashing). When connected successfully, the Bluetooth icon stays solid, and calibration can be performed.

If not connected within this time (Bluetooth icon off), the probe exits pairing mode, and must be turned off and on again to reconnect. After calibration, the probe can be used normally without Bluetooth; for the next calibration, repeat the process.

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

- 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.Remove the protective cover.
- 4.Press the button once to turn on the tester.
- 5.Open the Kactoilly app and pair it with the device.
- 6.Once connected, follow the steps in the app to complete the calibration.

Frequently Asked Questions

1. Why are there some white marks on the probe when I received the product? Has this product been used?

Not at all.

The white marks are from the protective solution (KCl) that we applied to the sealed protective cover to help preserve the probe. The protective solution is saturated, volatile, and easy to crystallize. Once the solution has overflowed and volatilized, it appears as white crystals. Simply rinse the probe gently with clean water to remove the crystals and ensure proper functionality.

2. Do I need to calibrate the pH when I first receive it?

It is ready for use upon receipt. If the measurements show any discrepancies, please use the device after calibration.

3. How often should the pH be calibrated?

It is recommended to calibrate the pH every 3–6 months.

4. What does the battery symbol on the display represent?

The battery symbol on the display represents the battery level of the device.

5. How do I know when the device is fully charged?

During charging, the battery indicator bars flash sequentially. When the battery is fully charged, the battery icon remains steadily lit.

6. How long does the battery last after a full charge?

A full charge typically lasts 4–5 months.

7. How can I charge the device?

The device can be charged using either the solar panel or the magnetic charging cable. During prolonged cloudy days, we recommend using the magnetic cable to recharge.

8. Can the device be used for long-term monitoring in strong acid or alkaline solutions?

No. The device should only be used for single measurements in highly acidic or alkaline solutions. Prolonged exposure may cause damage to the housing or electrodes.

9. What precautions should I take when using the device?

The electrodes are delicate precision components. Make sure to handle them gently and avoid dropping or rough handling.

10. How should I store the device when it's not in use?

1. Please use the provided KCL probe storage solution to thoroughly moisten the sponge inside the sealed probe cap, then put the cap onto the probe.

2. Always store the device at normal room temperature (15°C–30°C/59°F–86°F)

3. Avoid exposing the probe to air or allowing it to dry out for extended periods, as this may affect measurement accuracy. Especially In winter, keep it indoors in a heated room to prevent the probe from freezing.

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.

FCC Warning

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

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 used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation.

If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:-- Reorient or relocate the receiving antenna.

-- Increase the separation between the equipment and receiver.

-- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.

-- Consult the dealer or an experienced radio/TV technician for help.

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

Radiation Exposure Statement

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator and your body.

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