

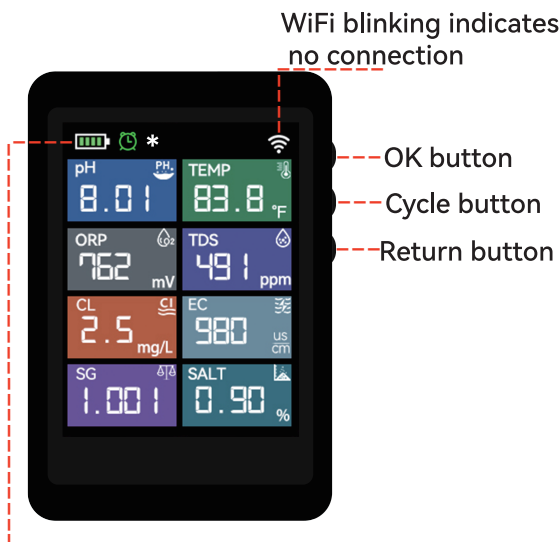
Swimming Pool Water Monitor

User Manual



Please read the instruction manual carefully before use

Model and function



The battery icon indicates the probe's battery level.

The alarm clock icon indicates that the probe has entered power-saving mode. When first powered on, the probe will work continuously for 20 minutes, then enter a 10-minute power-saving mode. After that, it will transmit data once and then enter another 10-minute power-saving mode, repeating this cycle. This means the alarm clock icon will be displayed in cycles of 10 minutes.

The "*" indicates the connection status between the display host and the probe. A constant display means the connection with the probe is lost, while occasional display is normal.

Product Information



pH、Temperature

Oxidation-Reduction Potential、Total Dissolved Solids

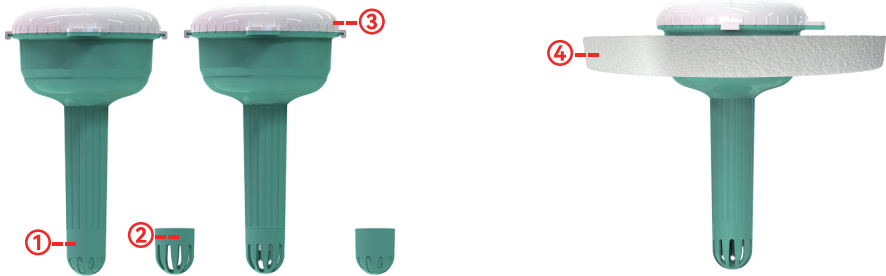
Free Residual Chlorine、Electrical Conductivity

Specific Gravity、Salinity

Measuring Range

Parameter	Range	Resolution	Accuracy
pH	0-14	0.01	±0.05
Temperature	0-60°C	0.1	±0.1
	32-140°F	0.5	±0.1
TDS	0-999ppm	1ppm	±5%F.S
	1.00-200ppt	1ppt	
Electrical Conductivity	0-999us/cm	1us/cm	±5%F.S
	1.00-400ms/cm	1ms/cm	
Salinity	0.01%-25.00%	0.01%-5.00%(±0.1%)	±2%F.S
		5.10%-25.00% (±1%)	
CL	0.1-4.0mg/L	0.1	±2%F.S
Specific Gravity	1.000-1.222	/	/
ORP	0-±999mv	1mv	/

User Guide



Note: The product has been calibrated at the factory. If you still feel there is an error, you can recalibrate it yourself.

Step 1: Use the original USB-C cable to power on the display. A power adapter (5V1A or 5V2A) needs to be provided by the user.

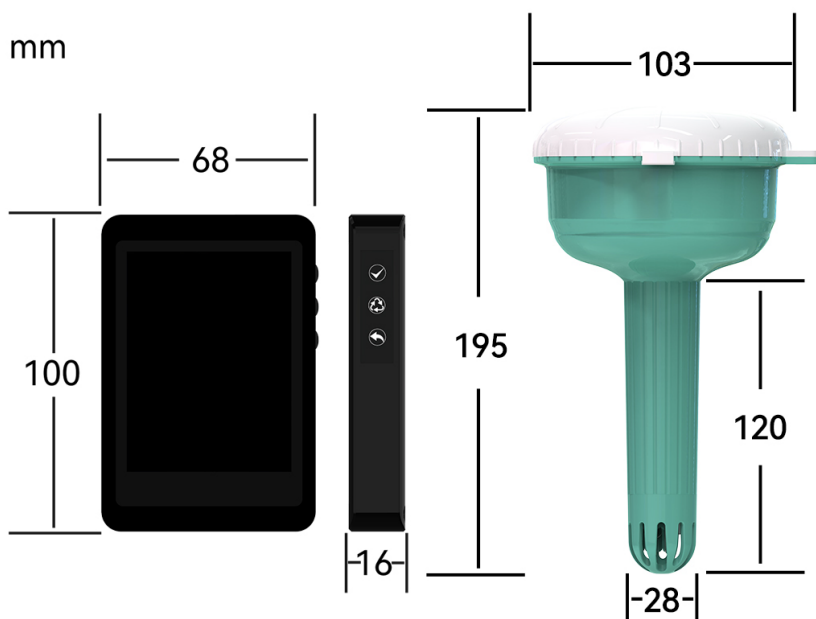
Step 2: After the display is powered on, unscrew the probe sealing cap ① and screw on the hollow cap ②. There is moisturizing sponge inside the sealing cap. When not in use, add some tap water to moisten the sponge inside the sealing cap and screw it back onto the probe for protection.

Step 3: To power on the probe, misalign ③ to open the top cover. You can see the magnetic charging port, the black button, the device's transmitting antenna, and the LED indicator inside. Press and release the black button once. The LED indicator will flash green three times, indicating that the probe has powered on and started working. To turn off the probe later, press and hold the black button for 3 seconds and release it. The LED indicator will flash red three times, indicating that the probe has shut down. Then, close the white cover ③ and screw it into place.

Step 4: Slide the floating sponge onto the probe(④), and then place it in the swimming pool. You can use the provided probe tether to secure the probe to prevent it from drifting away.

Step 5: For connecting the mobile app to the internet, please refer to page <6>.

Product Dimensions



Product Installation



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



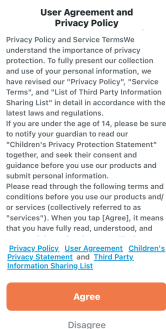
4: Secure the display by running it down the track to the bottom

WiFi Connection

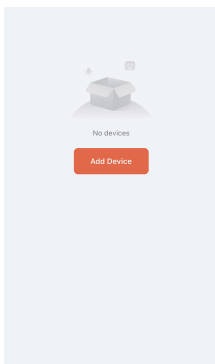


Tuya Smart

1. Download the APP.



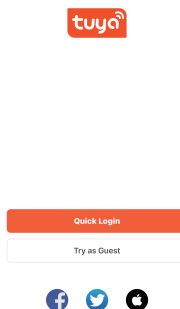
3. Agree with the terms.



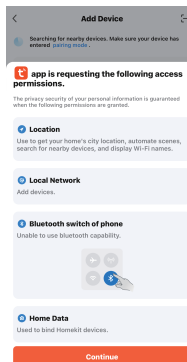
5. Click 'Add Device'.



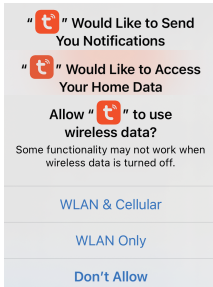
2. Allow all the required access.



4. Log in or Register.



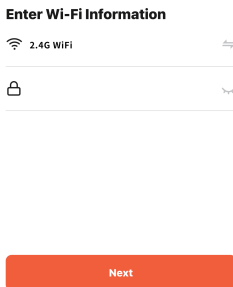
6. Click 'Continue'.



7. Allow all the required access.



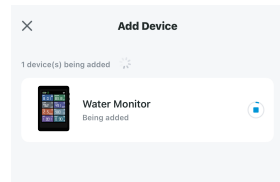
9. Long press the middle button for 3 seconds and release it.



11. Connect it to your 2.4GHz WiFi, and click 'Next'.



8. Please power up the display.



10. Click 'Water Monitor'.



12. Connection completed!

Connection between Display & Probe

The display and probe are pre-connected at the factory and ready for use after calibration. If '✖' continuously appears on the screen, it indicates a disconnection between the probe and the display.

***Please note that it's normal for "✖" to briefly appear during regular use.**

The reasons for the '✖' symbol appearing are as follows:

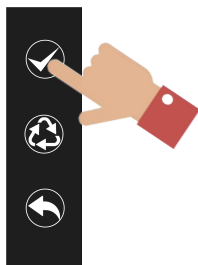
1. The distance between the display and the probe is too far. Please reduce the distance accordingly.
2. Restoring the product to factory settings clears the connection, so the display and probe will need to be reconnected.
3. The probe is not powered on.

To connect the display and probe, follow these steps:

1. Reset the monitor to factory settings, ensuring the power remains on during the reset process.
2. Turn off the probe, then power it back on to complete the connection.

Basic Operation

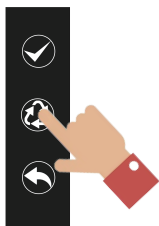
LCD OFF



Press and hold  for 3 seconds to turn off the screen light. A short press on any of the three buttons will turn the display back on.

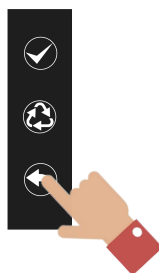
***Turning off the screen will not affect data collection or analysis.**

Configure WiFi



Press and hold  for 3 seconds, then release. The display will beep 3 times, indicating that it's connecting to the network.

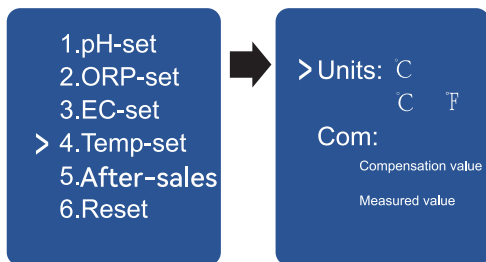
Remove the Monitor Connection from the APP



Press and hold  for 3 seconds, then release. The monitor connection will be automatically deleted, allowing you to connect it to another mobile phone.

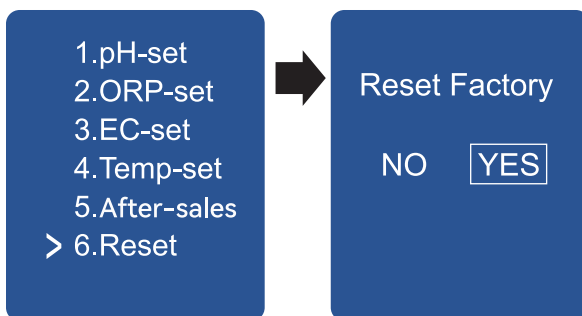
***This method will not delete historical data records.**

Switching Temperature Units



1. Enter the settings menu by pressing the middle button.
2. Select 'Temp-set', by pressing the middle button again, and confirm your choice with the left button.
3. Use the left button to choose between Fahrenheit and Celsius.

Factory Reset



1. Press the middle button to enter the settings menu.
2. Click the middle button to select 'Reset', and choose 'YES'.

Note: You can restore the device to its factory settings if you need to replace the probe or if the data display is abnormal. This will delete the data and require you to reconnect the display and the probe. Please perform this operation with caution.

Calibration and Adjustment

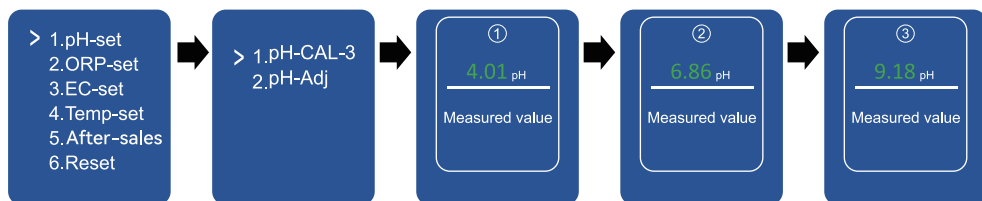
Before Calibration

1. Prepare three 250 ml glasses of purified water. Do not use mineral or tap water.
2. Completely dissolve the pH 4.0, 6.86, and 9.18 calibration powders in the three glasses of purified water.
3. Remove the protective cover from the probe.

pH Calibration

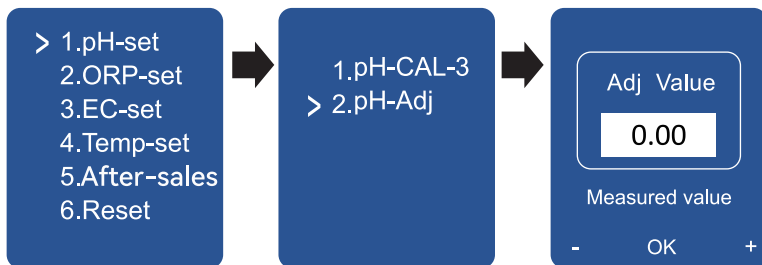
Two-point calibration is performed the same way as three-point calibration, except one less step is required. We recommend three-point calibration for greater accuracy.

3-point calibration for pH



1. Press the middle button to enter the settings menu.
2. Press the left button to select the option, 'pH-set'.
3. Press the middle button to move to the option, 'pH-CAL-3'. Then press the left button to confirm, and the device will enter the pH 4.01 calibration screen.
4. Place the probe in the pH 4.01 calibration solution. The displayed value shows the current measurement.
5. Gently shake the probe to ensure full contact with the solution. Wait for the reading to stabilize, then press the left button to confirm.
6. After it switches to the pH 6.86 calibration screen, clean the probe in neutral or purified water, and wipe off any remaining liquid.
7. Place the probe in the pH 6.86 calibration solution. Shake it gently, wait for the reading to stabilize, then press the left button to confirm.
8. When the pH 9.18 calibration screen appears, clean the probe again, wiping off any remaining liquid.
9. Place the probe in the pH 9.18 calibration solution. Shake it gently, wait for the reading to stabilize, then press the left button to confirm.
10. Clean the probe thoroughly as before.

pH Adjustment

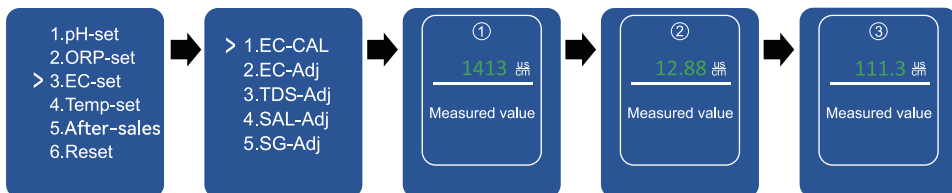


Feel free to adjust the measurement directly on the monitor if you need.

1. Press the middle button to enter the settings menu, then press the left button to select the option, 'pH-set'.
2. Press the middle button to navigate to 'pH-Adj', and then press the left button to confirm.
3. The monitor will enter the pH adjustment interface, with the default compensation value set to 0.
4. Use the left or right buttons to decrease or increase the value ('- / +'), then press the middle button to save your adjustment.

*The displayed value reflects the testing result.

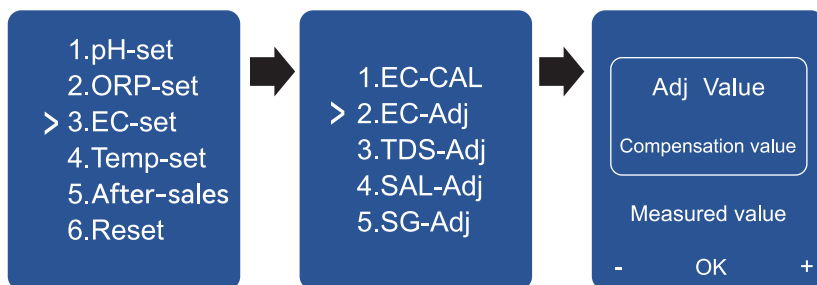
EC Calibration



Conductivity calibration fluids are usually more expensive, and Marine tank customers (salinity and specific gravity) recommend direct keystroke adjustment.

1. Press the middle button to enter the settings menu, then press it again to navigate to the option, 'EC-set.'
2. Press the middle button again to select 'EC-CAL', then press the left button to confirm. The device will enter the 1413 $\mu\text{S}/\text{cm}$ calibration screen.
3. Place the probe in the 1413 $\mu\text{S}/\text{cm}$ calibration solution. The displayed value reflects the current measurement.
4. Gently shake the probe to ensure full contact with the solution. Wait for the reading to stabilize, then press the left button to confirm.
5. Once it switches to the 12.88 mS/cm calibration screen, clean the probe with neutral or purified water, and wipe off any remaining liquid.
6. Place the probe in the 12.88 mS/cm calibration solution, shake it gently, and wait for the reading to stabilize. Press the left button to confirm.
7. When the 111.3 mS/cm calibration screen appears, clean the probe as before, and wipe off any remaining liquid.
8. Place the probe in the 111.3 mS/cm calibration solution, shake it gently, and wait for the reading to stabilize. Press the left button to confirm.
9. Clean the probe thoroughly as before.

EC Adjustment



1. Press the middle button on the monitor to enter the settings menu.
2. Use the middle button to navigate to the option, 'EC-set', then press the left button to confirm.

3. Use the middle button to navigate to 'EC-Adj', then press the left button to confirm.
4. Use the left or right buttons to adjust the value ('- / +'), then press the middle button to save the setting.

TDS Calibration

TDS calibration is not performed separately. When you calibrate EC, TDS will be calibrated simultaneously.

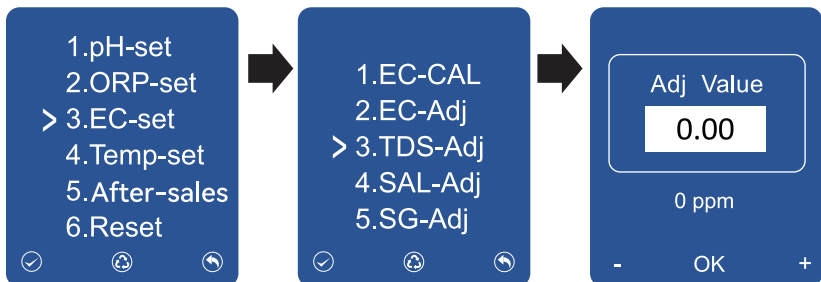
Salinity Calibration

TDS calibration is not performed separately. When you calibrate EC, salinity will be calibrated simultaneously.

SG Calibration

TDS calibration is not performed separately. When you calibrate EC, SG will be calibrated simultaneously.

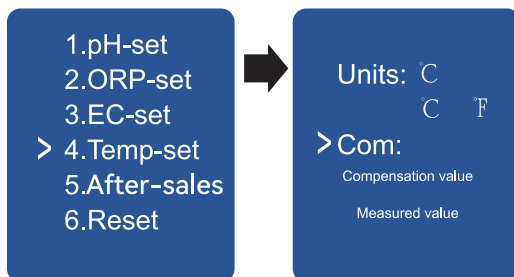
TDS Adjustment



1. Press the middle button on the monitor to enter the settings menu.

2. Use the middle button to navigate to the option 'EC-set', and press the left button to confirm.
3. Use the middle button to navigate to the option 'TDS-Adj', and press the left button to confirm.
4. Use the left or right buttons to adjust the value ('-' / '+'), then press the middle button to save the setting.

Temperature Adjustment



1. Enter the settings menu by pressing the middle button.
2. Access 'Temp-set', by pressing the middle button, and confirm your selection with the left button.
3. Press the middle button to select 'Com', then confirm with the left button.
4. Use the left or right button ('-' / '+') to adjust the setting, and press the middle button to save.