

Solar / Floating Water Quality Testers

Product brochures



© CE FC   Ip67 waterproof

Product parameters

Measurement Range	PH: 0.0~14.0 pH			
	CL: 0.0~4.0 mg/L			
	ORP: -999~+999mV			
	SALT: 0-999ppm; 1000-9990ppm			
	EC: 0-2000μS/cm; 2000-9990μS/cm; 10.01-19.99mS/cm			
	TDS: 0-999ppm; 1000-9990ppm			
	TEMP: 0.0-50.0°C; 32.0-122.0°F			
Resolution	PH:0.1pH	CL:0.1mg/L	ORP:1mV	SALT:1ppm;10ppm
	EC:1uS/cm;10uS/cm ; 0.01ms/cm			
	TDS:1ppm;10ppm		TEMP:0.1°C/°F	
Precision	PH:±0.1pH	CL:±0.1mg/L	ORP:±15mV	SALT±2%F.S
	EC:±2%F.S	TDS±2%F.S	TEMP:±0.1°C	
Calibration	PH:6.86 / 4.00 / 9.18 or 7.00 / 4.00 / 10.00 (Two sets of calibration modes are available)			
	EC:1413 uS/cm;12.88 ms/cm		ORP:222mV	
Standby	The phone exits the APP and automatically enters standby mode			
	Open the APP, the device works normally for measurement			
Product size	Length21cm*Width16.5cm			

Packing list

Packaging box*1	PH4.00 calibration solution*1	ORP calibration solution*1
Mainframe*1	PH7.00 calibration solution*1	
Instruction manual*1	PH10.01 calibration solution*1	

1

Product Overview

The Solar Smart Monitor is a WiFi connected network, with the use of mobile phone app, can monitor the timely changes in water quality. With the Solar Smart Monitor, you can get a more accurate, faster and more stable picture of the water quality. With the Solar Smart Monitor, you can get a more accurate, faster and more stable picture of your pool water's PH / residual chlorine / salinity / ORP etc.

Product features

- ◆ Exception alerts
- ◆ Data export
- ◆ Remote monitoring
- ◆ Solar/USB charging
- ◆ Multi-account management
- ◆ Multi-device management
- ◆ Name customization
- ◆ Setting of upper and lower value limits
- ◆ Automatic temperature compensation function
- ◆ Monthly, weekly and daily historical data view at any time

APP Download



YIERYI mart



◆ IOS system: Open the app shop that comes with your iPhone, search for YIERYI mart and download Or scan the QR code with Google Chrome to download the app.

◆ Android: Scan the QR code with Google Chrome to download the app.

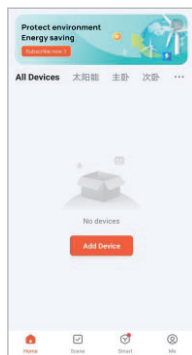
2

APP Connection

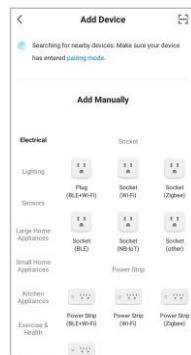
*Solar water quality tester must be paired with a gateway to be used.



1. Power on
Press the RESET button
for 5 seconds, The
indicator light comes on
and the red light flashes



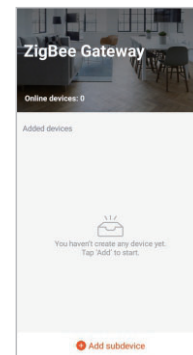
2. Open YIERI APP
Click Add Device



3. Select Gateway Central Control
Multifunctional gateway
(Zigbee)



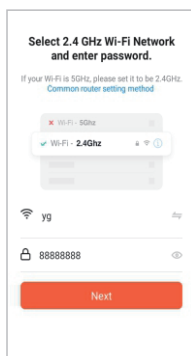
7. Click Finish



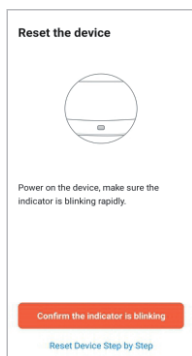
8. Click to add a
sub-device



9. Press and hold for 5seconds
for the light to flash

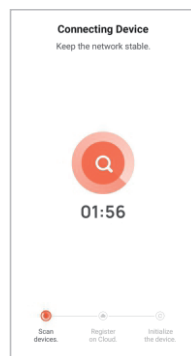


4. Enter the correct
password

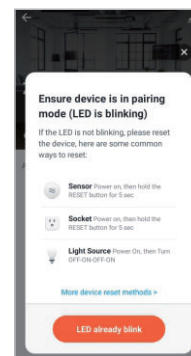


5. Confirmation light flashing
Select fast flashing

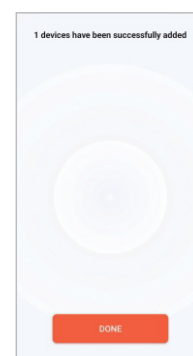
3



6. Search for equipment

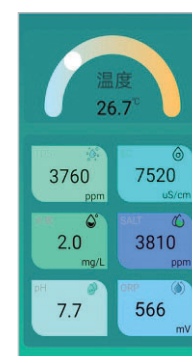


10. Confirmation
light flashing



11. Searching for
equipment

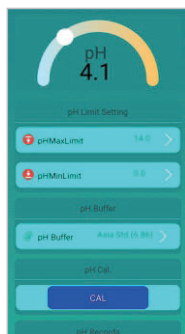
4



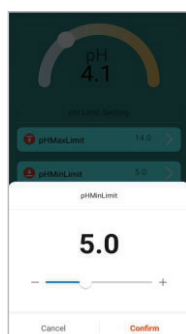
12. Successful
connection

Setting the upper/lower value limit

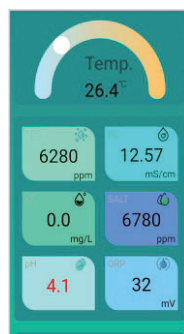
If the test result is outside the setting range, the number will be displayed in red.



1. Set upper and lower limits



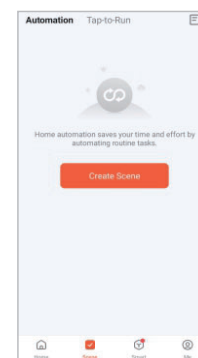
2. Select the value



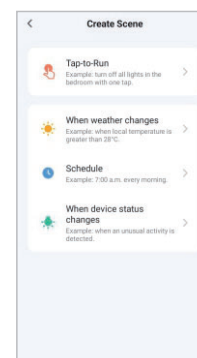
3. Limit value exceeded red display

Scene setting/exceeded limit value alarm

Select message alert, when the value is higher/lower than the alarm value APP will pop up the alarm message.



1. Create intelligent scenes



2. Select when the equipment status changes



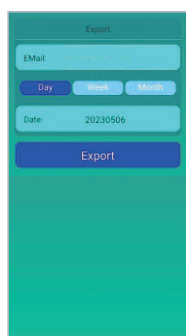
3. Setting alarm values

Data export

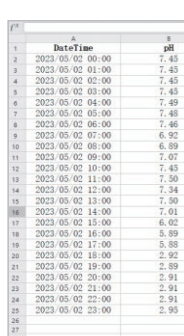
You can choose to export to Excel on a daily/weekly/monthly basis and send the export as a table to your email address. Click on download after sending the email.



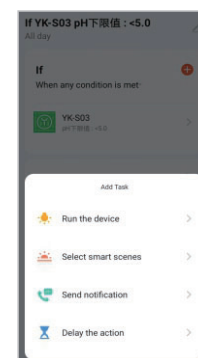
1. Click Export



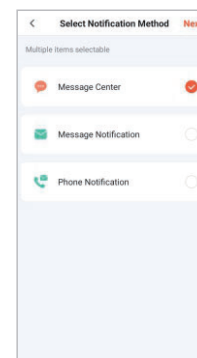
2. Enter your email address



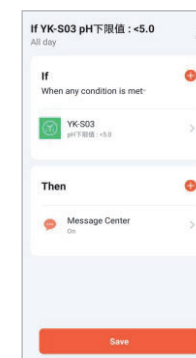
3. Open email to download



4. Add task Send notification



5. Select reminder method



6. Just save it

Calibration methods

◆ Ph calibration

1. Pour the 7.00/4.00/10.01 calibration solutions into separate cups.
2. Open the APP to enter the PH interface (already bound to the current device in order to operate).
3. Select PH standard (EU standard).
4. Put the electrode into the 7.00 solution, wait for the value to stabilise, click on calibrate, the calibration solution will be automatically recognised and 7.0 will appear, completing the 7.00 calibration.
5. Place the electrode in the 4.00 solution, wait for the value to stabilise, click on calibrate, automatically recognise the calibration solution, 4.0 appears and the 4.00 calibration is completed.
6. Place the electrode in the 10.01 solution, wait for the value to stabilise, click on Calibrate, the calibration solution is automatically recognised and 10.0 appears, completing the 10.01 calibration.

◆ ORP calibration

1. Pour the 222mV calibration solution into the cup.
2. Put the electrode into 222mV solution, enter the ORP calibration interface, wait for the value to stabilise, click on Calibrate Set the value to 222, display calibration in progress, 222 appears, complete 222 calibration.

◆ EC Calibration

1. Pour the 1413us/cm calibration solution into a cup and place the electrode in the 1413 solution.
2. Enter the EC calibration interface, wait for the value to stabilise, click on calibrate adjust the value to 1413, display calibration in progress 1413 appears, complete the 1413 calibration.
3. Pour the 12.88ms/cm calibration solution into the cup. Put the electrode into the solution, wait for the value to stabilise, click on calibrate, set the value to 12880 display calibration in progress, 12.88 appears, complete 12.88 calibration.

Electrode maintenance and care

1. PH electrodes should avoid long-term immersion in acidic fluoride solutions. The electrode should avoid contact with silicone oil.
2. When cleaning the electrode bulb, it should not be rinsed directly under strong water, but should be gently rinsed in pure contaminated water.
3. Avoid cross-contamination between solutions when measuring, so as not to

affect the measurement accuracy.

4. Contamination of the electrode bulb (contaminants: organic metal oxides organic greasy substances, tree polymers, protein precipitates, pigments) will slow down the response rate and should therefore be cleaned with an appropriate solution according to the nature of the contaminants. Therefore, the electrode should be cleaned with an appropriate solution to restore the performance of the electrode.

Quality assurance

We guarantee this instrument to be free from defects in material and workmanship and any product that fails to work due to faulty manufacture will be repaired or replaced by our company free of charge. Any product that does not work due to faulty manufacture will be repaired or replaced by our company free of charge.

This warranty does not cover damage caused by incorrect use, normal wear and tear, accidental damage, etc. Note that the warranty period refers to the period of time during which the product is provided free of charge to the customer. To request a warranty or other assistance, please contact your supplier. Please contact your supplier.

Q&A

Q1: Why is the residual chlorine value 0?

A1: The pool pH should be within 6.5-8 and the ORP should be within 487-840 for the chlorine residual to be displayed properly, either of these values will not be displayed properly.

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. Any changes or modifications 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 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. The device has been evaluated to meet general RF exposure requirement. The device can be used in portable exposure condition without restriction.