

## AIPER WTW2

# AIPER HydroComm Smart Pool Monitor User Manual

Model: WTW2

## 1. PRODUCT OVERVIEW

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The AIPER HydroComm Smart Pool Monitor is designed to provide continuous, real-time monitoring of water quality in pools, hot tubs, and spas. It features 5-in-1 testing capabilities and integrates with a dedicated mobile application for convenient data access and personalized optimization tips.



The AIPER HydroComm Smart Pool Monitor, showing its main unit, the two distinct probes for water parameter measurement, and a smartphone illustrating the accompanying Aiper application.

Key features include:

- **Real-Time Smart Pool Monitoring:** Continuously measures key water quality parameters, providing instant results via the Aiper app.
- **Tailored Optimization Insights:** Offers precise water testing and personalized recommendations within the Aiper App to optimize water quality.
- **Comprehensive 5-in-1 Testing:** Equipped with an advanced detection head for precise measurements of pH, ORP, EC, TDS, and temperature.
- **Instant Readings:** Connects to the Aiper App via WiFi or Bluetooth for real-time data, historical trends, and improved pool management.
- **Continuous Water Monitoring:** Solar-powered for 24/7 operation in full sunlight, with DC charging capability for

cloudy days.

# Smart Pool Water Monitor



All time monitor



App control



5-in-1 test

The HydroComm monitor actively floating in a swimming pool, highlighting its continuous monitoring capabilities, smartphone app integration, and comprehensive 5-in-1 water testing functions.

## 2. PACKAGE CONTENTS

Verify that all items are present in the package:

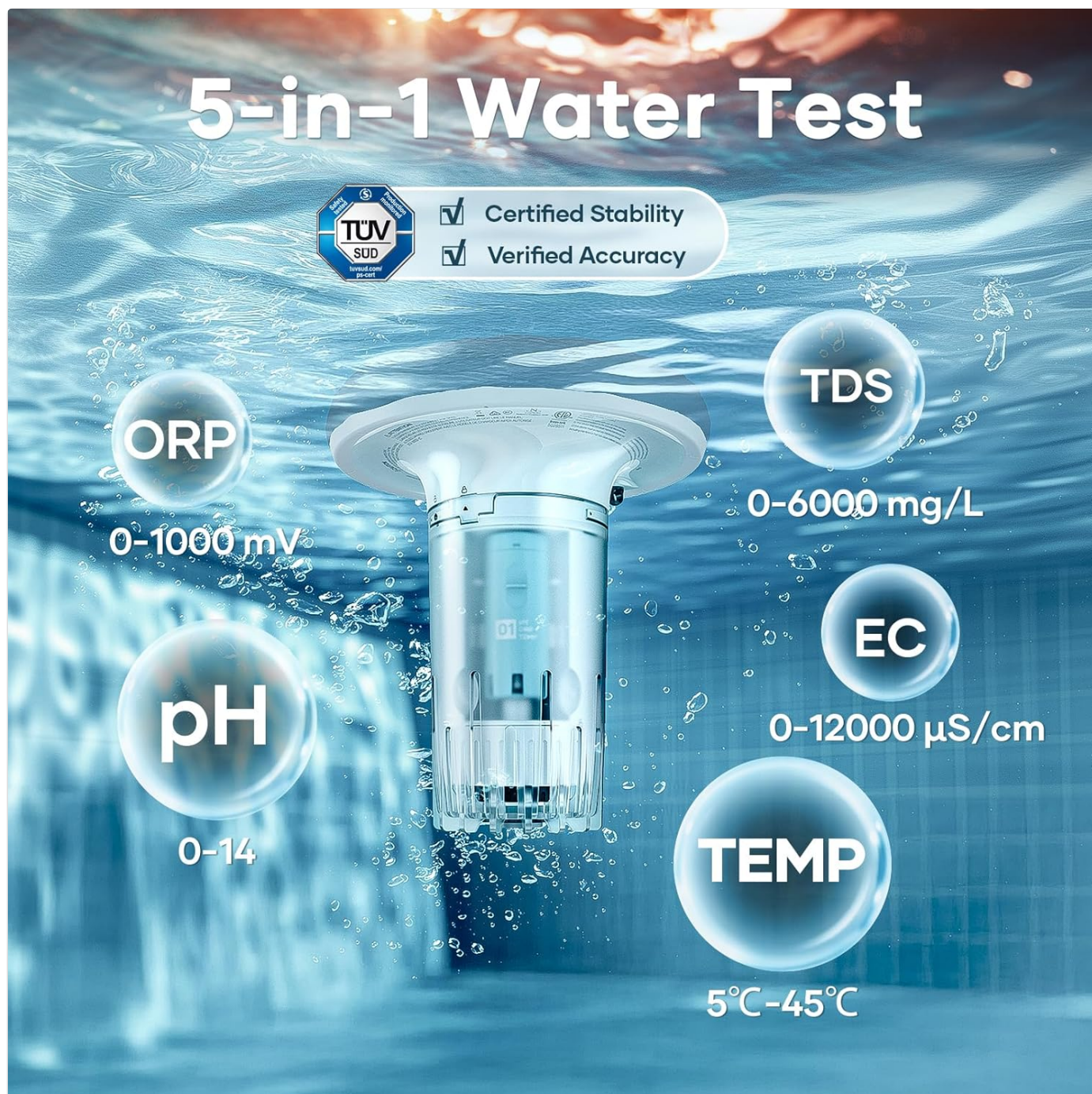
- AIPER HydroComm Smart Pool Monitor Main Unit
- Charging Cable
- Calibration Powder
- Calibration Cup and Mixer
- 2 Probe Covers (one large, one perforated)
- Lanyard
- User Manual (this document)



### 3. PRODUCT COMPONENTS

The HydroComm monitor consists of the main floating unit and two interchangeable probes:

- **Main Unit:** Houses the solar panel, battery, control electronics, and communication modules (WiFi/Bluetooth).
- **Blue Probe (Probe 01):** Measures pH levels, ORP (Oxidation Reduction Potential), and water temperature.
- **Purple Probe (Probe 02):** Measures TDS (Total Dissolved Solids), EC (Electrical Conductivity), and water temperature.



This image details the five key water parameters measured by the HydroComm: pH (0-14), ORP (0-1000 mV), EC (0-12000  $\mu\text{S}/\text{cm}$ ), TDS (0-6000 mg/L), and Temperature (5°C-45°C), emphasizing its comprehensive testing.

### 4. SETUP GUIDE

#### 4.1 Initial Charging

Before first use, ensure the HydroComm monitor is fully charged. The device is primarily solar-powered for continuous

operation in sunlight. For initial charging or during prolonged cloudy periods, use the provided DC charging cable.



The HydroComm monitor connected to a DC power source, demonstrating its alternative charging method for periods of insufficient sunlight, ensuring continuous operation.

## 4.2 App Installation and Connection

1. Download the 'Aiper' app from your smartphone's app store (available on iOS and Android).
2. Create an account and register your HydroComm device within the app.
3. Turn on the HydroComm monitor by pressing and holding the power button for 2 seconds.
4. Follow the in-app instructions to connect the device via Bluetooth or Wi-Fi (2.4 GHz network required).

## 4.3 Probe Installation

Carefully install the blue and purple probes into their designated slots on the main unit. Ensure they are securely locked into place to maintain a watertight connection. Avoid touching the sensitive probe tips during installation.

## 4.4 Calibration Process



Calibration is crucial for accurate readings. Perform calibration as instructed by the app, typically using the provided calibration powder and distilled water.



A visual guide showing the four steps for calibrating the HydroComm: preparing the solution, immersing the probe, waiting for calibration, and confirmation of success.

1. Pour 250ml of purified drinking water into the prepared cup.
2. Add the packet of pH powder and stir until fully dissolved.
3. Immerse the probe into the solution and start calibration via the app. Do not shake the solution or remove the probe during the 3-5 minute calibration period.
4. Confirm calibration success in the app once complete.

## 5. OPERATION GUIDE

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### 5.1 Real-time Data Monitoring

Once set up and placed in the water, the HydroComm will begin continuously monitoring your pool's water quality. Open the Aiper app to view real-time data for pH, ORP, EC, TDS, and temperature.

# Real-time Pool Monitor

Track Pool Data Anytime, Anywhere



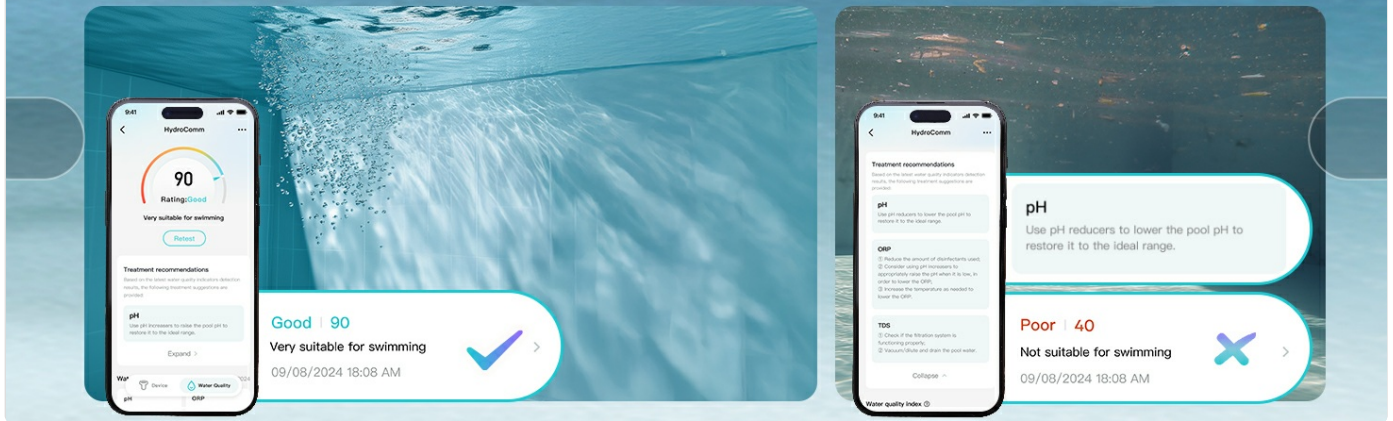
This image depicts a user accessing real-time water quality data and recommendations through the Aiper app, showcasing the convenience of remote monitoring.

## 5.2 Data Tracking and Analysis

The Aiper app stores historical data, allowing you to track trends in your water quality over daily, weekly, and monthly periods. This feature helps in understanding and managing your pool's chemical balance more effectively.



## Customized Tips



The Aiper app interface displaying the data tracking and analysis feature, allowing users to view historical trends and records of their pool's water quality over time.

### 5.3 Customized Optimization Tips

Based on the water quality readings, the Aiper app provides personalized recommendations and actionable tips to help you maintain optimal water conditions. These tips guide you on necessary chemical adjustments.



Examples from the Aiper app demonstrating how it provides tailored advice and treatment recommendations to optimize pool water quality based on the measured parameters.

## 6. MAINTENANCE

### 6.1 Probe Lifespan and Replacement

The probes have a typical lifespan of approximately one year. For continued accuracy, it is recommended to replace the probes annually or as indicated by the Aiper app. Replacement probes can be purchased separately from authorized Aiper retailers.





An illustration highlighting the advanced design of the HydroComm's precision probe, engineered for quick and accurate water data acquisition.

## 6.2 Probe Storage

When the HydroComm is removed from water for an extended period, ensure the probes remain damp. Use the provided closed probe cap with a moistened sponge inside to prevent the probes from drying out, which can affect their accuracy and lifespan.

## 6.3 Cleaning

Regularly clean the main unit and probes with a soft cloth to remove any debris or mineral buildup. For probes, follow specific cleaning instructions in the app or detailed manual to avoid damage.

## 7. TROUBLESHOOTING

If you encounter issues with your AIPER HydroComm Smart Pool Monitor, refer to the following common problems and solutions:

- **Inconsistent Readings:** If readings fluctuate significantly or do not align with manual tests, recalibrate the probes as described in Section 4.4. Ensure the probes are clean and properly installed. Environmental factors like direct sunlight or strong water currents can also affect readings.
- **Connection Issues (App/Device):** Verify that your Wi-Fi network is 2.4 GHz. Ensure the device is within range of your Wi-Fi router or smartphone for Bluetooth connection. Restart both the HydroComm and your app. If issues persist, try re-pairing the device in the app's settings.
- **Probe Accuracy Concerns:** If calibration does not resolve accuracy issues, the probes may be at the end of their lifespan and require replacement. Ensure the probes have been stored correctly (kept damp) when not in use.
- **Battery Not Holding Charge:** Ensure the solar panel is clean and exposed to sufficient sunlight. If using DC charging, verify the cable and power adapter are functioning correctly. If the issue persists, contact customer support.

For further assistance, consult the detailed troubleshooting section within the Aiper app or contact Aiper customer support.

## 8. SPECIFICATIONS

Feature	Specification
Model Name	HydroComm
Item Model Number	WTW2
Dimensions	9.2 x 9.2 x 10.2 inches
Item Weight	4.1 Pounds

Feature	Specification
Power Source	Solar Powered, DC Charging
Control Method	App (WiFi/Bluetooth)
Battery Type	Lithium Ion (1 included)
Battery Energy Content	37.44 Watt Hours
Material	Acrylonitrile Butadiene Styrene (ABS), Solar Panel
Color	White
Temperature Range	5°C-45°C

## 9. WARRANTY AND SUPPORT

AIPER offers an extended one-year warranty for the HydroComm Smart Pool Monitor. Additionally, the Aiper Care program provides complimentary consumable replacements, ensuring long-term usability and peace of mind.







This image outlines the Aiper Care program, which includes an extended one-year warranty and complimentary replacements for consumables, providing peace of mind for users.

For warranty claims, technical support, or inquiries regarding replacement parts, please contact AIPER customer service through their official website or the contact information provided in the Aiper app.

Visit the official AIPER store for more information and product updates:[AIPER Store](#)

### Related Documents



	<p><a href="#">Aiper HydroComm Smart Pool Monitor User Manual</a></p> <p>Comprehensive user manual for the Aiper HydroComm Smart Pool Monitor, detailing setup, operation, maintenance, and troubleshooting for optimal pool water quality monitoring.</p>
	<p><a href="#">Aiper HydroComm Pro Smart Pool Monitor &amp; Communication Device User Manual</a></p> <p>Comprehensive user manual for the Aiper HydroComm Pro, a smart pool monitor and communication device. Learn about its features, setup, usage, and maintenance.</p>
	<p><a href="#">Aiper HydroComm Pro Smart Pool Monitor &amp; Communication Device User Manual</a></p> <p>User manual for the Aiper HydroComm Pro, a smart pool monitor and communication device. This guide provides instructions on setup, operation, maintenance, and troubleshooting.</p>
	<p><a href="#">Aiper Scuba X1 Robotic Pool Cleaner - Features and Specifications</a></p> <p>Explore the Aiper Scuba X1 robotic pool cleaner, detailing its advanced features like OmniSense™ Ultrasonic Sensor, WavePath™ 3.0 Navigation, and WaveLine™ 2.0 Waterline Cleaning, along with its specifications and included accessories.</p>

Documents - AIPER – WTW2



[Aiper HydroComm Smart Pool Monitor User Manual](#)

Comprehensive user manual for the Aiper HydroComm Smart Pool Monitor, detailing setup, operation, maintenance, and troubleshooting for optimal pool water quality monitoring.

lang:fr score:31 filesize: 15.51 M page\_count: 108 document date: 2025-02-19



### [Aiper HydroComm Smart Pool Monitor User Manual](#)

User manual for the Aiper HydroComm Smart Pool Monitor, providing instructions for setup, usage, and maintenance in multiple languages.

lang:fr **score:31** filesize: 15.53 M page\_count: 108 document date: 2025-02-19



### [\[pdf\] User Manual](#)

English Package Discount Aiper Scuba S1 and Surfer S2 1748607218565W2 HydroComm User Manual

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SMART POOL MONITOR MONITEUR DE PISCINE INTELLIGENT Aiper

HydroComm User Manual / Manuel d'utilisation ... 45C . 5. Recharge the battery every six months to maintain its health. 15 5 Specifications Model: **WTW2** Rated Input: 16.8V1.0A Charger Model: GC16-168100-1C Charger Input: 100-240V -, 60/50Hz, 1.0A C...

lang:en **score:31** filesize: 8.29 M page\_count: 64 document date: 2025-02-19



### [\[pdf\] User Manual Instructions](#)

Svenska Package Discount Aiper Scuba S1 and Surfer S2 1748606360300W2 HydroComm User Manual

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SMART POOL MONITOR Original Instructions Aiper HydroComm User Manual

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### [\[pdf\] Test Report](#)

Date of Type hpit Test reportShenzhen Aiper Intelligent Co Ltd WTW2P Smart Pool Monitor

Communication Device Underwater 2BD5N 2BD5NWTW2P wtw2p

Shenzhen Aiper Intelligent Co.,Ltd. TEST REPORT SCOPE OF WORK FCC

TESTING**WTW2P**, **WTW2**, **WTW2S** REPORT NUMBER 250116059SZN-001 ISSUE

DATE REVISED DATE 09 May 2025 ----- PAGES 27 DOCUMENT

CONTROL NUMBER FCC ID 249\_C 2017 INTERTEK Test Report Intertek Report

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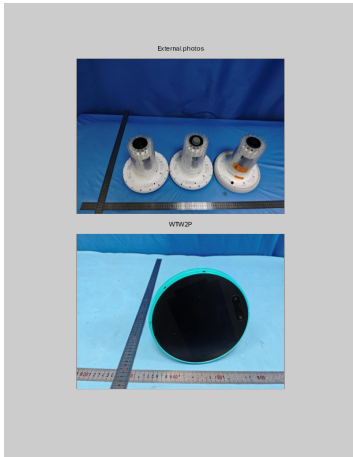
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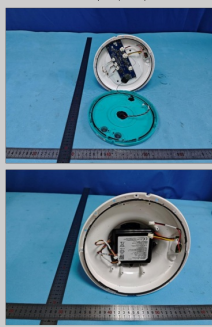
[\[pdf\]](#) Test Report

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Shenzhen Aiper Intelligent Co.,Ltd. TEST REPORT SCOPE OF WORK FCC TESTING**WTW2P**, **WTW2**, **WTW2S** REPORT NUMBER 250116059SZN-002 ISSUE DATE REVISED DATE 09 May 2025 ----- PAGES 30 DOCUMENT CONTROL NUMBER FCC ID 247\_b 2017 INTERTEK TEST REPORT 101, 201, Building B, No. 308 Wuh...  
lang:en **score:27** filesize: 839.76 K page\_count: 31 document date: 2025-06-24



[\[pdf\]](#) Product Photos

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[\[pdf\]](#) Product Photos Teardown

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Internal photos **WTW2P WTW2 WTW2S ...**

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