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Aumoo W218

Water Quality Meter PH W218

8-in-1 WiFi Remote Monitoring System

INTRODUCTION

The Aumoo W218 Water Quality Meter is an advanced 8-in-1 device designed for comprehensive water quality monitoring. This multifunctional instrument provides real-time data for various parameters, including pH, ORP, EC, CF, TDS, Salt, S.G, and Temperature. With its WiFi remote monitoring capabilities, users can access and manage data conveniently via a mobile application, making it ideal for continuous 24-hour online monitoring in diverse environments.



Image: The Aumoo W218 Water Quality Meter, showing the main unit with its digital displays and connected pH, ORP, and EC/TDS/Salt/S.G/CF/Temperature probes.

KEY FEATURES

- **8-in-1 Measurement:** Monitors pH, ORP, EC, CF, TDS, Salt, S.G, and Temperature simultaneously.
- **24-Hour Online Monitoring:** Provides continuous real-time data for constant oversight of water conditions.

- **WiFi Remote Monitoring:** Connects to a mobile application (compatible with iOS and Android) for remote data access and control.
- **Automatic Data Storage:** Automatically stores and saves data for up to 30 days, allowing for historical analysis.
- **Multi-Parameter Test & Automatic Correction:** Simplifies testing and ensures accuracy with built-in correction features.
- **Real-Time Data Detection:** Allows users to view detailed data trends over daily, weekly, and monthly periods within the app.



Image: A smartphone screen showing the mobile application interface for the water quality meter, demonstrating WiFi connection and real-time data display, with the meter and probes submerged in an aquarium.

SPECIFICATIONS

Parameter	Range	Resolution	Accuracy
pH	0.00-14.00pH	0.01PH	±0.03pH

Parameter	Range	Resolution	Accuracy
ORP	-2000mv ~ +2000mv	1mv	±5mv
EC	0-19000us/cm, 0-199.0 ms/cm	1us/cm (>1999us/cm), 0.1ms/cm	±2%F.S
CF	0-1999.0CF	1CF	±2%F.S
TDS	0-19990ppm, 0-199.0ppt	1 ppm (>1999ppm), 0.1 percentage point	±2%F.S
Salt	0-199.9ppt, 0%-20%	1ppm (>1999ppm), 0.1 percentage point, 0.01%	±2%F.S
S.G	0.990-1.400	0.001	±2%F.S
Temperature	0-50°C (32°F~122°F)	0.1°C (0.2°F)	±1.0°C

Power: DC 6V (US Plug 110V)

Temperature Compensation: 0°C-50°C

Operating Temperature: 0°C-50°C

Product Dimensions: Approx. 152x80x26mm / 6.0x3.1x1.0in

Manufacturer: Aumoo



Image: All components of the Aumoo W218 Water Quality Meter laid out, including the main display unit, various probes (pH, ORP, EC/TDS/Salt/S.G/CF/Temperature), power adapter, and connection cables.

SETUP GUIDE

1. **Unboxing:** Carefully remove all components from the packaging. Verify that all parts listed in the specifications (main unit, pH probe, ORP probe, EC/TDS/Salt/S.G/CF/Temperature probe, power adapter) are present.
2. **Power Connection:** Connect the provided DC 6V power adapter to the main unit's power input port. Plug the adapter into a standard US 110V electrical outlet.
3. **Probe Connection:**
 - Connect the pH probe to the designated "pH" BNC connector on the main unit.
 - Connect the ORP probe to the designated "ORP" BNC connector on the main unit.
 - Connect the EC/TDS/Salt/S.G/CF/Temperature probe to its respective input port.
4. **Initial Placement:** Position the main unit in a stable, dry location away from direct sunlight or excessive vibrations. Ensure the probes can be submerged in the water source without straining the cables.
5. **App Download & Connection:**
 - Download the "Smart APP" (as mentioned in product features) from your mobile device's app store (compatible with iOS and Android systems).
 - Follow the in-app instructions to connect the device to your local WiFi network and register your account. This will enable remote monitoring.



Image: The Aumoo W218 Water Quality Meter installed next to an aquarium, with its probes submerged in the water, demonstrating a typical setup for continuous monitoring.

OPERATING INSTRUCTIONS

1. **Power On:** Once connected to power, the device will automatically power on and display current readings on its digital screens.
2. **Submerge Probes:** Carefully submerge the pH, ORP, and EC/TDS/Salt/S.G/CF/Temperature probes into the water source you wish to monitor. Ensure the probes are fully immersed and free from air bubbles.
3. **Readings:** The main unit will display real-time readings for pH/Temperature, ORP, and EC/TDS/Salt/S.G/CF. Allow a few moments for readings to stabilize.
4. **App Monitoring:** Open the "Smart APP" on your mobile device. You should see the real-time data from the meter. Navigate through the app to view specific parameters, historical data (daily, weekly, monthly), and adjust settings if available.
5. **Parameter Switching (if applicable):** The device has buttons (e.g., "MODE") to switch between different display modes for the multi-parameter screen (EC/TDS/Salt/S.G/CF). Refer to the labels on the device for specific

functions.

CALIBRATION

Regular calibration is crucial for maintaining the accuracy of your water quality meter. The W218 supports automatic correction for various parameters.

pH Calibration:

The device supports 3-point pH calibration. Users can choose calibration points from 6.86, 4.00, 9.18, or 7.00, 4.00, 10.00. Factory default calibration is 6.86, 4.00, 9.19.

1. Prepare fresh pH buffer solutions (e.g., pH 6.86, pH 4.00, pH 9.18/10.00).
2. Rinse the pH probe with distilled water and gently blot dry.
3. Submerge the pH probe into the first buffer solution (e.g., pH 6.86).
4. Press the "CAL" button under the pH/TEMP display. The device will automatically recognize the buffer and calibrate. Wait for the reading to stabilize and the calibration process to complete (indicated by a specific display change or sound).
5. Repeat the process for the second and third buffer solutions, rinsing the probe thoroughly between each solution.

ORP Calibration:

Factory default ORP calibration is 265mV.

1. Prepare a fresh ORP calibration solution (e.g., 265mV).
2. Rinse the ORP probe with distilled water and gently blot dry.
3. Submerge the ORP probe into the calibration solution.
4. Press the "CAL" button under the ORP display. Wait for the reading to stabilize and the calibration process to complete.

EC/TDS/Salt/S.G/CF Calibration:

Factory default EC calibration is 12.88ms/cm, 1.413ms/cm.

1. Prepare fresh EC calibration solutions (e.g., 12.88ms/cm, 1.413ms/cm).
2. Rinse the EC probe with distilled water and gently blot dry.
3. Submerge the EC probe into the first calibration solution.
4. Press the "CAL" button under the PPM/EC/SALT/S.G/CF display. Wait for the reading to stabilize and the calibration process to complete.
5. Repeat for other calibration points if necessary, rinsing the probe between solutions.

Note: Always use fresh calibration solutions and follow the specific instructions in the device's full manual for precise calibration procedures.



Image: A close-up of the Aumoo W218 Water Quality Meter's display panel, highlighting the "CAL" buttons for pH, ORP, and EC/TDS/Salt/S.G/CF, indicating the calibration points for each parameter.

MAINTENANCE

- **Probe Cleaning:** Regularly clean the probes with distilled water to remove any buildup or contaminants that may affect readings. For stubborn deposits, use a soft brush or a mild cleaning solution recommended for probes.
- **Probe Storage:** When not in use for extended periods, ensure pH and ORP probes are stored in their respective storage solutions or a suitable electrode storage solution to prevent drying out. The EC probe can typically be stored dry.
- **Calibration:** Calibrate the meter regularly, especially before critical measurements or if you notice inconsistent readings. Refer to the Calibration section for details.
- **Device Cleaning:** Wipe the main unit with a soft, dry cloth. Do not use abrasive cleaners or immerse the main unit in water.
- **Environmental Conditions:** Operate and store the device within the specified operating temperature range (0°C-50°C) and avoid extreme humidity.





Image: A close-up view of one of the water quality probes, showing its cylindrical body and the connection point, emphasizing the need for proper handling and cleaning.

TROUBLESHOOTING

Problem	Possible Cause	Solution
No Power/Display Off	Power adapter not connected, power outlet issue.	Ensure power adapter is securely plugged into the unit and a working electrical outlet. Check the outlet with another device.
Inaccurate Readings	Probes are dirty, probes are dry, calibration is needed, probe lifespan expired.	Clean probes thoroughly. Re-calibrate the meter according to the Calibration section. Ensure pH/ORP probes are stored wet. Consider replacing probes if they are old or damaged.
Unstable Readings	Air bubbles on probes, insufficient immersion, electrical interference.	Gently tap probes to dislodge air bubbles. Ensure probes are fully immersed. Move the unit away from other electronic devices.
App Not Connecting	WiFi signal weak, incorrect WiFi password, app not updated, device not paired.	Check WiFi signal strength. Re-enter WiFi password in the app. Update the app to the latest version. Follow app instructions for device pairing.
Data Not Saving	App storage issues, device memory full (unlikely for 30 days storage).	Ensure the app has necessary permissions. Check app settings for data storage. Contact support if issue persists.

APPLICATIONS

The Aumoo W218 Water Quality Meter is versatile and suitable for a wide range of applications, including but not limited to:

- Aquariums and Glass Fish Ponds
- Mining Operations
- Medical Research
- Agriculture (e.g., hydroponics, irrigation)
- Laboratories
- Water Environment Monitoring
- Quality Control in various industries
- Drinking Water Analysis
- Swimming Pools
- Water Treatment Facilities

WIDE RANGE OF APPLICATION



Drinking water



Swimming pool



Fish tank



Water treatment



Irrigation



Laboratory

Image: A visual representation of the wide range of applications for the water quality meter, including drinking water, swimming pools, fish tanks, water treatment, irrigation, and laboratory use.

WARRANTY AND SUPPORT

For warranty information, technical support, or service inquiries regarding your Aumoo W218 Water Quality Meter, please refer to the documentation provided with your purchase or contact the manufacturer directly. Keep your purchase receipt as proof of purchase for warranty claims.

Manufacturer: Aumoo

For the most up-to-date support resources, visit the official Aumoo website or contact their customer service department.

