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### Gain Express 6-in-1 PH Meter

## 6-in-1 PH Meter for Water Hydroponics User Manual

Model: 6-in-1 PH Meter | Brand: Gain Express

### INTRODUCTION

The Gain Express 6-in-1 PH Meter is a comprehensive water quality monitoring device designed for various applications including hydroponics, aquariums, fish ponds, and drinking water analysis. This device provides real-time measurements for pH, Electrical Conductivity (EC), Total Dissolved Solids (TDS), Salt, Specific Gravity (SG), and Temperature. With its wireless Wi-Fi connectivity and mobile application support, users can conveniently monitor water parameters from anywhere, ensuring optimal conditions for their specific needs.



Image: The 6-in-1 PH Meter unit, showing the main display, connected probes, power adapter, and included pH buffer calibration powders.

## KEY FEATURES

- Multi-parameter Testing:** Measures pH, EC, TDS, Salt, SG, and Temperature.
- Wireless Wi-Fi Monitoring:** Real-time data access via a convenient mobile application.
- Easy 3-Point Calibration:** Ensures accurate and reliable measurements.
- Versatile Applications:** Suitable for fish ponds, aquariums, hydroponics, mariculture, and drinking water.
- Convenient Wall-Mounted Design:** Effortless installation and space-saving.

## SET INCLUDES

The product package includes the following items:

- 1 x 6-in-1 Multi-parameter Tester Unit
- 1 x Replaceable pH Electrode
- 1 x EC/TDS/Salt/SG/Temperature Electrode
- 1 x Temperature Electrode
- 3 x pH Buffer Powder (pH 4.0, pH 6.86, pH 9.18)
- 2 x Suction Cups
- 1 x Wall Mount Bracket
- 1 x USB Power Supply
- 1 x Carrying Case



Image: All components included in the 6-in-1 PH Meter kit, neatly arranged.

## SETUP

- Unpack:** Carefully remove all components from the carrying case.
- Connect Probes:** Connect the pH electrode, EC/TDS/Salt/SG/Temperature electrode, and the separate temperature electrode to their respective ports on the main meter unit. Ensure connections are secure.
- Power On:** Connect the USB power supply to the DC Output port on the meter and plug it into a power outlet. The device will power on automatically.
- Mounting (Optional):** Use the provided wall mount bracket and suction cups to secure the meter to a desired surface, such as the side of an aquarium or a wall.

## Parameter Calibration



Image: The meter unit conveniently mounted on a wall, showcasing its space-saving design.



Image: The suction cups and wall mount bracket, used for securing the meter.

## OPERATING INSTRUCTIONS

### Understanding the Display and Buttons



Image: Labeled diagram of the meter's buttons and connection points.

- **MODE Button:** Cycles through different measurement parameters (EC, TDS, Salt, SG). Also functions as a decrease button during settings.
- **TEMP CAL/+ Button:** Used for temperature calibration and as an increase button during settings.
- **Wi-Fi Button:** Activates or deactivates Wi-Fi connectivity for app monitoring.
- **CAL Button:** Initiates the calibration process for pH.

## Parameter Calibration

The meter supports a 3-point calibration for pH to ensure accuracy. EC/TDS/Salt/SG calibration may also be required depending on usage.

1. **pH Calibration:** Prepare the pH buffer solutions (pH 4.00, 6.86, 9.18). Submerge the pH electrode into the first buffer solution. Press the 'CAL' button and follow the on-screen prompts. Repeat for the other two buffer solutions.
2. **EC/TDS/Salt/SG Calibration:** Refer to the detailed instructions in the mobile application or the full user manual for specific steps on calibrating these parameters. Note that EC solution is not included.

# MOBILE APPLICATION MONITORING

## 24 hours online monitoring



compatible with  
iOS and Android



Image: A hand pressing the 'CAL' button on the meter to initiate calibration.

### Mobile Application Monitoring

The meter connects to a mobile application via Wi-Fi for 24-hour online monitoring and data logging.

- Download App:** Scan the QR code in the product packaging or search for the compatible app (e.g., Tuya Smart) on your smartphone's app store (iOS or Android).
- Connect to Wi-Fi:** Ensure the meter's Wi-Fi function is enabled. Follow the app's instructions to connect the meter to your home Wi-Fi network.
- Monitor Data:** Once connected, you can view real-time data, set alarms, and review historical data directly from your smartphone.

# TEMPERATURE UNIT SELECTABLE

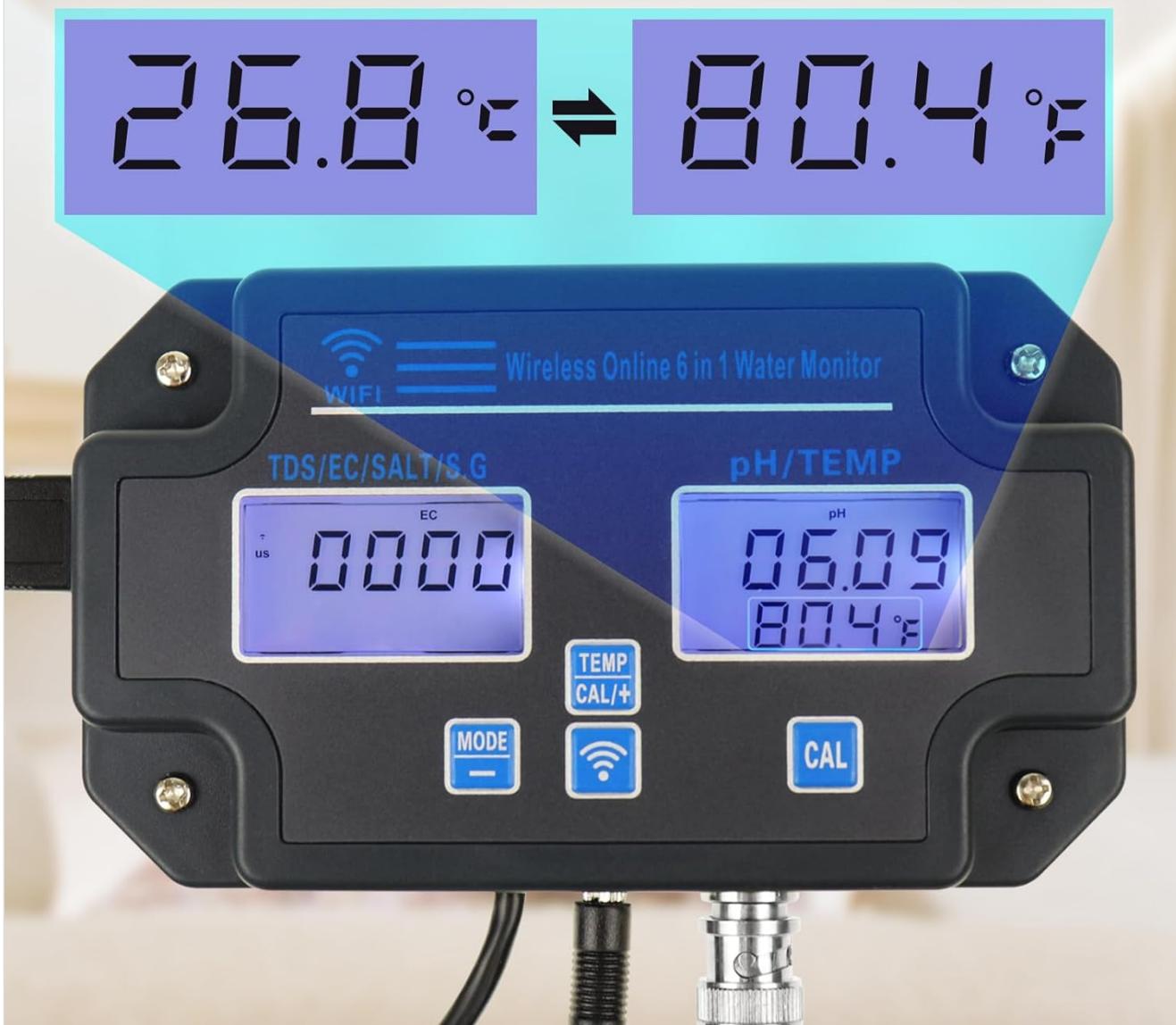


Image: The mobile application interface showing real-time monitoring data.

## Temperature Unit Selection

You can switch between Celsius (°C) and Fahrenheit (°F) temperature units on the display.

- **Switching Units:** Press the 'TEMP CAL/+' button to toggle between Celsius and Fahrenheit display modes.



Image: The meter's display showing the temperature unit being switched between Celsius and Fahrenheit.

## MAINTENANCE

- **Electrode Cleaning:** Regularly clean the electrodes with distilled water to prevent buildup and ensure accurate readings. For stubborn deposits, use a soft brush or a mild cleaning solution recommended for pH/EC probes.
- **Electrode Storage:** When not in use, store the pH electrode in a suitable storage solution (e.g., KCL solution) or distilled water to prevent it from drying out.
- **Recalibration:** Calibrate the meter regularly, especially if readings appear inconsistent or after prolonged periods of non-use.
- **Unit Cleaning:** Wipe the main unit with a soft, dry cloth. Do not immerse the main unit in water.

## TROUBLESHOOTING

Problem	Possible Cause	Solution
Inaccurate Readings	Electrodes are dirty or need calibration.	Clean electrodes and perform a 3-point calibration.
Display Not Working	Power supply issue or unit malfunction.	Check power connection. Ensure the correct power adapter is used. If problem persists, contact support.
Cannot Connect to App	Wi-Fi not enabled, incorrect network, or app issue.	Ensure Wi-Fi is enabled on the meter. Verify network credentials. Restart app and meter.
EC Solution Not Included	This is standard.	EC calibration solution must be purchased separately.

## SPECIFICATIONS

Parameter	Measurement Range	Resolution	Accuracy
pH	0.00-14.00 pH	0.01 pH	±0.03 pH
EC	0-19000 µS/cm, 0-199.0 ms/cm	1 µS/cm (<1000 µS/cm), 10 µS/cm (>1000 µS/cm), 0.1 ms/cm	±2% F.S
TDS	0-19990 ppm, 0-199.0 ppt	1 ppm (<1000 ppm), 10 ppm (>1000 ppm), 0.1 ppt	±2% F.S
Salt	0-199.9 ppt, 0-20%	1 ppm (<1000 ppm), 10 ppm (>1000 ppm), 0.1 ppt, 0.01%	±2% F.S
SG	0.990-1.400	0.001	N/A
Temperature	0-50°C (32-122°F)	0.1°C (0.2°F)	±1.0°C

**Temperature Compensation:** 0-50°C

**Operating Temperature:** 0-50°C



Image: The meter actively monitoring water parameters in an aquarium setup.

## VERSATILE APPLICATIONS

This multi-parameter tester is designed for a wide range of water quality monitoring needs:

- Swimming Pools
- Drinking Water
- Aquariums
- Hydroponics Systems
- Mariculture Operations
- Laboratories



Image: Visual representation of the diverse applications for the 6-in-1 PH Meter.

## WARRANTY AND SUPPORT

Gain Express products are manufactured to high standards. For any issues or technical support, please refer to the contact information provided with your purchase or visit the official Gain Express website. Protection plans may be available for extended coverage, offering peace of mind for your investment.

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## Related Documents - 6-in-1 PH Meter

	<p><a href="#">Solar Smart Monitor: Floating Water Quality Tester for Pools - Features, Specs, and Calibration</a></p> <p>Detailed overview of the YIERYI Solar Smart Monitor, a WiFi-enabled floating water quality tester for pools. Learn about its features, product parameters, app connection, calibration methods, maintenance, and troubleshooting.</p>
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 <p>Kactoily 7-in-1 Aquarium Water Quality Monitor User Manual</p>	<p><a href="#">Kactoily 7-in-1 Aquarium Water Quality Monitor User Manual &amp; Guide</a></p> <p>Comprehensive user manual for the Kactoily 7-in-1 Aquarium Water Quality Monitor. Learn about its features, monitoring functions, installation, calibration procedures for pH, ORP, EC, Salinity, TDS, Specific Gravity, and Temperature, troubleshooting FAQs, and after-sales service.</p>
 <p>YIERYI PH-W9909 Multi-parameter Water Quality Tester User Manual</p>	<p>Comprehensive user manual for the YIERYI PH-W9909 multi-parameter WiFi water quality tester. Learn about its specifications, operation, calibration, and mobile app features for monitoring pH, EC, TDS, Salinity, SG, and Temperature.</p>
 <p>Floating Pool Monitoring Device User Manual</p>	<p>This document provides the user manual for the floating pool monitoring device. It details Bluetooth connectivity via the YINMIK app, device operation, parameter measurements (pH, CL, EC, Salt, ORP, Temperature), calibration procedures, settings, data management, and warranty information.</p>
<p><b>INSTRUCTION MANUAL</b></p> <p><b>Bluetooth 6 In 1</b></p>  <p>Floating Pool Monitor (pH/EC/SALT/CL/ORP/T EMF Meter)</p>	<p><a href="#">Bluetooth 6-in-1 Floating Pool Monitor Instruction Manual</a></p> <p>Comprehensive instruction manual for the Bluetooth 6-in-1 Floating Pool Monitor, detailing its parameters, operation, calibration, and warranty information for accurate pool water testing.</p>
	<p><a href="#">E-1 Portable TDS &amp; EC Meter and pH Meter User Manual</a></p> <p>Comprehensive user manual for the E-1 Portable TDS &amp; EC Meter and pH Meter, detailing product specifications, operation, calibration, maintenance, and troubleshooting for accurate water quality testing.</p>