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## Irfora Tuya WiFi 7in1 Water Quality Tester

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Model: Tuya WiFi 7in1 Water Quality Tester

Brand: Irfora

## 1. INTRODUCTION

The Irfora Tuya WiFi 7in1 Water Quality Tester is a multi-functional device designed for real-time monitoring of various water parameters. This analyzer provides accurate readings for PH, ORP, EC, PPM, CF, humidity, and temperature, making it suitable for a wide range of applications including aquariums, hydroponics, aquaculture, swimming pools, and drinking water analysis.

This manual provides detailed instructions on how to set up, operate, and maintain your water quality tester to ensure optimal performance and longevity.

## 2. PRODUCT FEATURES

- **7-in-1 Monitoring:** Simultaneously measures PH, ORP, EC, PPM, CF, humidity, and temperature.
- **High-Accuracy Electrode:** Features a detachable, corrosion-resistant electrode for quick and precise measurements.
- **Tuya APP Control:** Connects via WiFi for stable data transmission, allowing real-time and historical data viewing on your mobile device.
- **Data Logging:** Records historical data for long-term analysis and comparison.
- **Alarm Function:** Provides abnormal high and low data alarms through the Tuya APP.
- **Wide Applications:** Ideal for aquariums, hydroponics, aquaculture, swimming pools, drinking water, and laboratory use.

## 3. SETUP GUIDE

### 3.1 Unpacking and Component Check

Carefully unpack all components from the packaging. Ensure you have the main water quality tester unit, the detachable electrode probe, and the power adapter.



Figure 3.1: Main unit, probe, and power adapter.

### 3.2 Connecting the Probe

Connect the electrode probe to the main unit by screwing it into the designated port. Ensure a secure connection to prevent water ingress and ensure accurate readings.

### 3.3 Power Connection

Plug the power adapter into the main unit and then into a standard US electrical outlet. The device display should illuminate.



**Note:** If there is an error in manual measurement please refer to the actual

Figure 3.2: Device dimensions for placement consideration.

### 3.4 Tuya APP Connection

1. Download the Tuya Smart APP from your mobile device's app store (iOS or Android).
2. Register or log in to your Tuya account.
3. Add a new device by following the in-app instructions. Ensure your device is in pairing mode (refer to the device's display or manual for specific pairing instructions, usually involving holding a button).
4. Connect the device to your WiFi network.
5. Once connected, you can view real-time data and access settings via the APP.

## 4. OPERATING INSTRUCTIONS

### 4.1 Taking Measurements

Submerge the electrode probe into the water sample you wish to test. Ensure the probe is fully immersed and free from air bubbles. The device will display real-time readings for PH, ORP, EC, PPM, CF, humidity, and temperature on its digital screen.



Figure 4.1: Water quality tester in operation, displaying readings and connected to the Tuya APP.

## 4.2 Understanding the Display

The device features three main display sections:

- **Left Display:** Shows EC/PPM/CF readings. Use the 'MODE' button below to cycle through these parameters.
- **Middle Display:** Shows pH/ORP readings. Use the 'MODE' button below to cycle through these parameters.
- **Right Display:** Shows Temperature and Humidity readings. Use the '°C/°F' button to switch temperature units.

The 'CAL' button is used for calibration (refer to section 5.2 for calibration details).

### 4.3 Using the Tuya APP

The Tuya APP provides enhanced functionality:

- **Real-time Data:** View all 7 parameters simultaneously on your smartphone.
- **Historical Data:** Access recorded data over time to track trends and analyze water quality changes.
- **Alarm Settings:** Set custom high and low thresholds for each parameter. The APP will send notifications if readings fall outside these ranges.
- **Unit Switching:** Change temperature units ( $^{\circ}\text{C}/^{\circ}\text{F}$ ) directly from the app.



Figure 4.2: Tuya APP interface for real-time data viewing and analysis.

## 5. MAINTENANCE

### 5.1 Electrode Cleaning and Storage

Regularly clean the electrode probe to ensure accurate readings. Rinse the probe with distilled water after each use. For long-term storage, ensure the probe is clean and stored in a protective solution (if applicable, consult specific electrode instructions) or kept moist to prevent drying out.

### 5.2 Calibration

Periodic calibration is essential for maintaining accuracy, especially for pH and ORP measurements. Use standard calibration solutions (e.g., pH 4.00, pH 6.86, pH 9.18 for pH) and follow the device's calibration procedure, typically initiated by pressing the 'CAL' button and immersing the probe in the respective solution.

### 5.3 Important Waterproof Notice

**This tester is NOT waterproof.** Do not immerse the main unit in water or allow it to get wet during use. Exposure to water can cause damage and lead to improper functioning of the device.



Figure 5.1: Important notice: The main unit is not waterproof.

## 6. TROUBLESHOOTING

- **No Power:** Ensure the power adapter is securely connected to both the device and a working electrical outlet. Check the power source.
- **Inaccurate Readings:** Clean the electrode probe thoroughly. Perform a calibration using fresh, accurate calibration solutions. Ensure the probe is fully immersed in the sample.
- **APP Connectivity Issues:** Verify your WiFi network is active and the device is within range. Restart the device and your mobile phone. Re-attempt the pairing process if necessary.
- **Display Not Working:** Check power connection. If the issue persists, contact customer support.

## 7. SPECIFICATIONS

Parameter	Measurement Range
PH	0.00-14.00pH
ORP	-1200mV to 1200mV
EC	0.00-19.00mS/cm, 20.1-200.0mS/cm
CF	0.1-199.9CF
Humidity	1-99%RH
Temperature	0.1°C-80°C (32.1°F-176°F)

- **Product Dimensions:** 9.84 x 7.09 x 2.76 inches
- **Item Weight:** 1.42 pounds
- **Manufacturer:** Irfora
- **ASIN:** B0D3LGLPB9

## 8. WARRANTY AND SUPPORT

Warranty information for the Irfora Tuya WiFi 7in1 Water Quality Tester is typically provided by the manufacturer or seller at the time of purchase. Please refer to your purchase documentation or contact the seller directly for details regarding warranty coverage and customer support.

For technical assistance or inquiries not covered in this manual, please reach out to the Irfora customer support team through the contact information provided with your product or on the official Irfora website.

## 9. WIDE RANGE OF APPLICATIONS

This multi-parameter water quality detector is highly practical for various environments:

- Aquariums
- Hydroponics
- Aquaculture
- Swimming Pools
- Drinking Water Testing
- Laboratory Use



Figure 9.1: Examples of suitable applications for the water quality tester.