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Real Instruments JQ-006

Real Instruments Digital Water Quality Tester

Model: JQ-006 User Manual

Your guide to accurate water quality monitoring.

Product Overview

The Real Instruments JQ-006 is a versatile 10-in-1 digital water quality tester designed for comprehensive analysis of water, liquids, and solutions. It accurately measures pH, EC (Electrical Conductivity), TDS (Total Dissolved Solids), Temperature, S.G (Specific Gravity), ORP (Oxidation-Reduction Potential), Salinity, H2 (Hydrogen), Fertile (Nutrient Concentration), and Resistivity. This instrument is ideal for a wide range of applications including drinking water monitoring, hydroponics, aquariums, swimming pools, and laboratory use.

- **Multiple Measurements:** 4 in 1 (pH/EC/TDS/Temperature) with additional capabilities for S.G, ORP, Salinity, H2, Fertile, and Resistivity.
- **Waterproof Design:** Ensures durability and reliability in various environments.
- **Automatic Temperature Compensation (ATC):** Provides accurate readings across different temperatures.
- **Replaceable Electrode:** Extends the lifespan of the device.
- **Large LCD Display:** For clear and easy-to-read measurements.
- **Pocket Size:** Convenient for portability and field use.

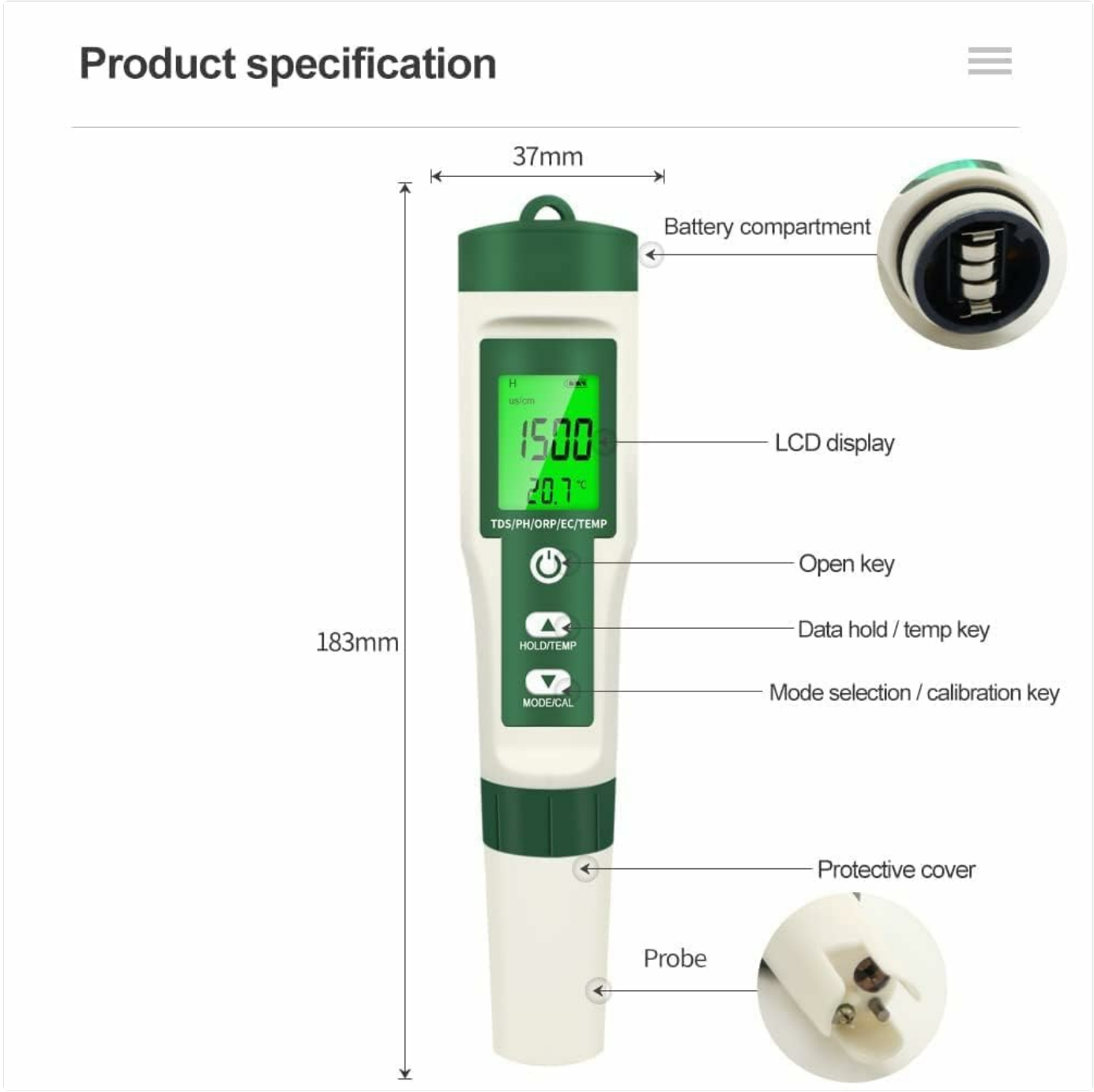


The JQ-006 Digital Water Quality Tester shown with various calibration buffer powders.

Setup

1. **Unpacking:** Carefully remove the JQ-006 tester and included accessories (1 X Water Quality Tester, 1 X User Manual, 1 X Box) from the packaging.
2. **Battery Installation:** The device operates on 3 x 1.5V (LR44) button cell batteries. Ensure they are correctly inserted into the battery compartment located at the top of the device. Refer to the diagram below for battery compartment location.
3. **Protective Cover Removal:** Before use, gently remove the protective cover from the probe at the bottom of the device.
4. **Initial Calibration:** For optimal accuracy, it is recommended to perform an initial calibration.
    - **pH Calibration:** The device supports three-point automatic calibration (pH 6.86, 4.00, and 9.18). Follow the operating instructions for detailed calibration steps.
    - **TDS & EC Calibration:** These are factory set. If recalibration is needed, refer to advanced calibration procedures

in the full manual.



Labeled components of the JQ-006 tester, including the battery compartment, LCD display, and control buttons.

Operating Instructions

The JQ-006 features an intuitive interface with dedicated buttons for power, data hold/temperature, and mode/calibration.

1. **Power On/Off:** Press the **Power button** ( ) to turn the device on. The device will automatically shut off after 5 minutes of inactivity to conserve battery.
2. **Mode Selection:** Press the **MODE/CAL button** to cycle through the different measurement modes (pH, EC, TDS, S.G, ORP, Salinity, H2, Fertile, Resistivity). The current mode will be displayed on the LCD.
3. **Taking a Measurement:**
    a. Dip the probe into the water sample, ensuring the electrode is fully submerged.
    b. Gently stir the solution and wait for the reading to stabilize on the LCD.
    c. The temperature will also be displayed simultaneously.

4. **Data Hold/Temperature Switch:** Press the **HOLD/TEMP button** to freeze the current reading on the display. Press it again to release the hold. Long press this button to switch between Celsius (°C) and Fahrenheit (°F) temperature units.
5. **Calibration:** To enter calibration mode, long press the**MODE/CAL button** when in the desired measurement mode (e.g., pH). Follow the on-screen prompts and use the appropriate buffer solutions.

Understanding Readings and Applications

The JQ-006 provides various measurements crucial for different water quality assessments:

- **pH:** Measures the acidity or alkalinity of water (Range: 0.00-14.00PH).
- **TDS (Total Dissolved Solids):** Indicates the amount of dissolved substances in water (Range: 1-19990ppm). Refer to the purity table for general guidelines.
- **EC (Electrical Conductivity):** Measures the ability of water to conduct electricity, related to dissolved salts (Range: 1-19990us/cm).
- **Temperature:** Measures water temperature (Range: 0~60℃).
- **Salinity:** Detects the salt content, important for food processing, aquariums, and marine environments (Edible salt: 0.01~25.00%).
- **S.G (Specific Gravity):** Relevant for seawater density in aquaculture and marine aquariums (Range: 1.000-1.222).
- **H2 (Hydrogen):** Measures hydrogen concentration in water, often associated with hydrogen-rich water (Range: 0-2400PPb).
- **Nutrient Concentration:** Helps assess the suitability of water for plant growth in hydroponics.



The JQ-006 is suitable for various applications including hydroponics, aquarium water, drinking water, and swimming pools.



TDS Numerical Reference Table to understand water purity levels.

Maintenance

- **Probe Cleaning:** After each use, rinse the probe thoroughly with distilled or deionized water to prevent contamination and residue buildup. Do not use abrasive materials.
- **Electrode Replacement:** The electrode is replaceable. If readings become consistently inaccurate despite calibration, or if the electrode is visibly damaged, it may need replacement. Contact Real Instruments support for compatible replacement electrodes.
- **Battery Replacement:** When the display dims or the device fails to power on, replace the 3 x 1.5V (LR44) button cell batteries. Ensure correct polarity.
- **Storage:** Store the tester in a cool, dry place with the protective cap securely placed over the probe. For long-term storage, ensure the probe is kept moist with a storage solution (not distilled water) if recommended for the specific electrode type.

Troubleshooting

- **Inaccurate Readings:**
  - Ensure the probe is clean and free of residue.
  - Perform a calibration using fresh, accurate buffer solutions.
  - Check if the electrode is damaged or worn out; consider replacement if necessary.
  - Verify the temperature of the sample is within the operating range.
- **Device Not Turning On:**
  - Check if the batteries are correctly installed and have sufficient charge. Replace batteries if needed.
  - Ensure the battery compartment is securely closed.
- **Slow Response Time:**
  - Clean the probe thoroughly.
  - Ensure the probe is fully submerged in the sample.
- **Display Errors:**
  - If an error code appears, refer to the full user manual for specific error definitions.
  - Try turning the device off and on again.

If issues persist, please contact Real Instruments customer support for further assistance.

Specifications

Parameter	Specification
Model Number	JQ-006
Measurement Range (pH)	0.00-14.00PH
Measurement Range (TDS)	1-19990ppm
Measurement Range (EC)	1-19990us/cm
Measurement Range (Temperature)	0~60℃
Measurement Range (Salinity)	0.01~25.00% (Edible salt)
Measurement Range (S.G)	1.000-1.222
Measurement Range (H2)	0-2400PPb
Resolution (pH)	0.01ph
Resolution (TDS)	1ppm
Resolution (EC)	1us/cm, 10us/cm
Resolution (Temperature)	0.1℃
Accuracy (pH)	±0.05PH

Accuracy (EC/TDS)	±2%F.S
Accuracy (Temperature)	±0.5°C
Automatic Temperature Compensation	Yes
Calibration (pH)	Three points automatic (6.86, 4.00, 9.18pH)
Calibration (TDS/EC)	Factory set
Auto Shut Off	5 Minutes
Battery	3 x 1.5V (LR44) button cell
Dimensions	188mm x 35mm x 35mm (approx. 8 x 3 x 2 cm)
Item Weight	123gm (approx. 150 g with packaging)
Included Components	1 X Water Quality Tester, 1 X User Manual, 1 X Box

Warranty and Support

For warranty information and customer support, please refer to the documentation provided with your purchase or contact Real Instruments directly. While a 10-day replacement policy may be available through your retailer, specific warranty terms are provided by the manufacturer.

Manufacturer: Real Instruments

For technical assistance, troubleshooting, or inquiries regarding replacement parts, please reach out to Real Instruments customer service.

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