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RCYAGO BLE-C600

RCYAGO 7-in-1 Digital pH Meter User Manual

Model: BLE-C600

INTRODUCTION

The RCYAGO BLE-C600 is a versatile 7-in-1 digital meter designed for comprehensive water quality testing. It accurately measures pH (acidity and alkalinity), EC (conductivity), TDS (total dissolved solids), Salinity (salt content), S.G (Specific Gravity), ORP (Oxidation-Reduction Potential), and temperature. This device features automatic temperature compensation (ATC) and Bluetooth connectivity for seamless data management via a mobile application. It is suitable for various applications.



Figure 1: RCYAGO 7-in-1 Digital pH Meter in use, measuring water quality in a glass.

PRODUCT COMPONENTS AND FEATURES



Figure 2: Exploded view of the meter, highlighting battery compartment, backlight display, data hold/temperature unit conversion key, function conversion/calibration key, ON/OFF key, immersion line, protective cap, and high-precision probe.

- **High-Precision Probe:** Equipped with a sensitive glass probe for accurate measurements.
- **Multi-Parameter Display:** Large LCD display shows multiple parameters simultaneously.
- **Button Battery Power:** Uses 3*1.5V button batteries (located under the top cap).
- **Backlight Display:** App-controlled backlight for improved visibility.
- **Data Hold/Temperature Unit Conversion Key ({HOLD/TEMP}):** Locks the measured value and switches between Celsius and Fahrenheit.
- **Function Conversion/Calibration Key ({MODE/CAL}):** Switches between pH, EC, TDS, Salinity, S.G, and ORP measurements, and initiates calibration.
- **ON/OFF Key:** Powers the device on or off.
- **Protective Cap:** Covers the electrode for protection when not in use.
- **Immersion Line:** Indicates the minimum immersion depth for accurate readings.

ELECTRODES

TDS/EC/Salinity

Temperature Sensor

Reference Electrode

ORP

Glass PH Sensor



Figure 3: Detailed view of the meter's electrodes, including the TDS/EC/Salinity electrodes, Temperature Sensor, Reference Electrode, ORP electrode, and Glass pH Sensor.

SETUP

1. Battery Installation

1. Unscrew the top cap of the meter.
2. Insert 3*1.5V button batteries into the battery compartment, ensuring correct polarity.
3. Securely screw the top cap back on.

2. Initial Preparation

1. Remove the protective cap from the electrode.
2. Rinse the electrode with distilled water before first use.

3. Bluetooth Connection and App Setup

The meter connects to your smartphone via Bluetooth for enhanced functionality and data management. Ensure your phone's Bluetooth is enabled.

Your browser does not support the video tag.

Video 1: Demonstrates the Bluetooth connection process and basic app functions for the Smart Bluetooth 7-in-1 PH/TDS/EC/ORP/S.G/Salinity/Temp Meter.

1. Download the official RCYAGO app (refer to product packaging or included QR code for download instructions).
2. Press and hold the ON/OFF button on the meter for 5 seconds to turn on or off Bluetooth. The Bluetooth icon will appear on the meter's display.
3. Open the app on your smartphone. The app will automatically search for and connect to the meter.
4. Once connected, the app will display real-time readings from the meter.

OPERATING INSTRUCTIONS

1. Taking a Measurement

1. Ensure the meter is powered on.
2. Immerse the electrode into the solution to be tested, ensuring the immersion line is covered.
3. Wait for the readings to stabilize on the LCD display.
4. Press the **{MODE/CAL}** key to cycle through the different measurement parameters: pH, EC (uS/cm), TDS (ppm), Salinity (ppm/%), S.G, and ORP (mV).
5. To hold the current reading on the display, press the **{HOLD/TEMP}** button. Press again to release.
6. To switch temperature units (Celsius/Fahrenheit), long-press the **{HOLD/TEMP}** button.

2. App Functions

The mobile app provides advanced control and data management features:

- **Real-time Display:** View all 7 parameters simultaneously on your phone screen.
- **Backlight Control:** Toggle the meter's backlight on/off directly from the app.
- **Data Saving:** Manually save measurement data to the app's history.
- **Data Management:** Access saved data, view calibration records, and share test results.
- **Parameter Limits:** Set upper and lower limits for pH, EC, and ORP. If a measured value exceeds these limits, it will be displayed in red on the app interface, alerting you to abnormal readings.

Data synchronization display

The pH Meter data will be synchronized to the mobile APP. Multiple data can be displayed at the same time, which is convenient and quick. No need to frequently operate the pH Meter to view data.



Figure 4: The app interface demonstrating data synchronization, backlight control, and options to hold or save readings.



You can set the maximum or minimum measurement by yourself

Set the maximum or minimum limit of pH/EC/ORP according to user requirements. If the test result exceeds the range the value will be displayed in red



Figure 5: The app allows users to set maximum and minimum measurement limits for pH, EC, and ORP. Values outside these limits are highlighted in red.

CALIBRATION

The pH meter features a 5-point calibration method for high accuracy. Calibration powders for Asia Standard (pH 4.00, pH 6.86, pH 9.18) and EU Standard (pH 7.00, pH 10.01) are included. Always clean the electrode with distilled water between different buffer solutions.

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Video 2: Demonstrates the pH calibration process using buffer solutions.

pH Calibration Procedure:

1. Prepare the buffer solutions (e.g., pH 4.00, pH 6.86, pH 9.18) according to their instructions.
2. Turn on the meter and ensure it's connected to the app.
3. Immerse the electrode into the first buffer solution (e.g., pH 4.00).

4. Press and hold the **{MODE/CAL}** key for 5 seconds until "CAL" appears on the display and the reading starts flashing.
5. Wait for the reading to stabilize and flash 3 times, indicating successful calibration for that point.
6. Rinse the electrode thoroughly with distilled water.
7. Repeat steps 3-5 for the remaining buffer solutions (e.g., pH 6.86 and pH 9.18).
8. Calibration records can be viewed in the app.

APPLICATIONS

The RCYAGO 7-in-1 Digital pH Meter is widely used for various water quality testing needs, including but not limited to:

- Drinking Water
- Hydroponics
- Fish Tanks
- Aquariums
- Swimming Pools
- Sewage Treatment
- Water Purification
- Laboratory Testing

Widely used in

Drinking water, sewage treatment, water purification, fish tanks aquaculture, swimming pools, hydroponics,etc.



Fish tank



Drinking water



Hydroponics



Swimming pool



Aquarium



Laboratory



Figure 6: Visual representation of common applications for the water quality tester.

MAINTENANCE

- Electrode Cleaning:** Always rinse the electrode with distilled water after each use to prevent contamination and ensure accurate readings.
- Storage:** After cleaning, replace the protective cap on the electrode. Store the meter in a cool, dry place.
- Battery Replacement:** Replace batteries when the low battery indicator appears on the display.

TROUBLESHOOTING

Problem	Possible Cause	Solution
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Problem	Possible Cause	Solution
Inaccurate Readings	Electrode is dirty or contaminated. Meter is not calibrated or calibration is outdated. Insufficient immersion of the electrode.	Clean the electrode thoroughly with distilled water. Perform a full 5-point calibration. Ensure the electrode is immersed past the immersion line.
Bluetooth Connection Issues	Bluetooth not enabled on meter or phone. App not properly installed or updated. Interference from other devices.	Long-press ON/OFF button on meter to activate Bluetooth. Enable Bluetooth on your phone. Reinstall or update the app. Move away from other electronic devices.
Display shows "red value abnormally"	Measured value exceeds preset upper or lower limits in the app.	This is an alert feature. Check the water quality against your desired parameters. Adjust limits in the app settings if necessary.
Meter does not turn on	Low or dead batteries.	Replace the 3*1.5V button batteries.

SPECIFICATIONS

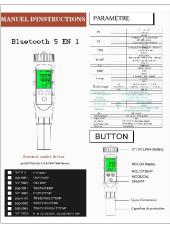
- Model Number:** BLE-C600
- Functions:** pH, EC, TDS, Salinity, S.G, ORP, Temperature
- pH Range:** 0-14 pH
- pH Resolution:** 0.01 pH
- Calibration:** 5-point pH calibration (4.00, 6.86, 9.18, 7.00, 10.01)
- Connectivity:** Bluetooth (App control)
- Temperature Compensation:** Automatic Temperature Compensation (ATC)
- Power:** 3 x 1.5V Button Batteries
- Dimensions:** 9.2 x 3.2 x 2 inches
- Weight:** 6.38 ounces

For detailed ranges and resolutions for EC, TDS, Salinity, S.G, and ORP, please refer to the product packaging or the mobile application's specifications section.

WARRANTY AND SUPPORT

Information regarding product warranty and customer support is typically provided with the product packaging or can be found on the manufacturer's official website. Please retain your proof of purchase for any warranty claims.

Related Documents - BLE-C600

	<p>YINMIK BLE-C600 Bluetooth 7-in-1 Water Quality Tester: Instructions and Specifications</p> <p>Comprehensive guide for the YINMIK BLE-C600 Bluetooth 7-in-1 Water Quality Tester, covering setup, operation, calibration, features, and warranty information.</p>
	<p>BLE-C600 Multi-Parameter Water Quality Tester Manual</p> <p>Instruction manual for the BLE-C600 multi-parameter water quality tester, covering its features, operation, and calibration for pH, EC, TDS, Salt, SG, and ORP.</p>
	<p>BLE-YC01 Bluetooth 6-in-1 Pool Tester User Manual</p> <p>Comprehensive user manual for the BLE-YC01 Bluetooth 6-in-1 Pool Tester, covering pH, EC, TDS, CL, ORP, and Temperature measurements. Includes detailed specifications, calibration procedures, data management, and operational instructions for optimal water quality testing.</p>
<p>INSTRUCTION MANUAL</p> <p>Bluetooth 6 In 1</p>  <p>Floating Pool Monitor (pH/EC/SALT/CL/ORP/TEMP Meter)</p>	<p>Bluetooth 6-in-1 Floating Pool Monitor Instruction Manual</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>INSTRUCTION MANUAL</p> <p>Bluetooth 6 In 1</p>  <p>Floating Pool Monitor (pH/EC/SALT/CL/ORP/TEMP Meter)</p>	<p>Bluetooth 6 In 1 Floating Pool Monitor Instruction Manual</p> <p>Comprehensive instruction manual for the Bluetooth 6 In 1 Floating Pool Monitor (pH/EC/SALT/CL/ORP/TEMP Meter), covering parameters, operation, calibration, data management, and warranty information.</p>

คู่มือการใช้งาน



คู่มือการใช้งาน
(pH/EC/SALT/CL/ORP/TEMP Meter)

[Bluetooth 6 In 1 Floating Water Quality Meter User Manual](#)

Comprehensive user manual for the Bluetooth 6 In 1 floating water quality meter, covering specifications, operation, calibration, and maintenance for pH, EC, Salt, CL, ORP, and Temperature measurements.