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VIHELM BLE-9908

VIHELM BLE-9908 Multifunctional Water Quality Tester User Manual

Model: BLE-9908

1. INTRODUCTION

The VIHELM BLE-9908 is a versatile digital meter designed for comprehensive water quality testing. It accurately measures pH, Electrical Conductivity (EC), Total Dissolved Solids (TDS), and Temperature. This device is suitable for a wide range of applications, including swimming pools, environmental monitoring, tap water analysis, laboratory use, brewing, and hydroponics.



Figure 1: VIHELM BLE-9908 Multifunctional pH Meter. This image displays the front view of the meter, showing its LCD screen with pH and temperature readings, and control buttons for HOLD/TEMP, MODE/CAL, and ON/OFF.

Key Features:

- Multi-parameter measurement: pH, EC, TDS, Temperature.
- High accuracy and resolution for precise readings.
- Bluetooth 5.2 connectivity for seamless data synchronization with mobile app (Android/iOS).
- IP67 waterproof rating for durability.
- Automatic Temperature Compensation (ATC).
- Backlit LCD display for clear visibility.
- Data saving and export functions (Excel sheet).
- Replaceable electrode for extended device lifespan.

Package Contents:

- 1x BLE-9908 Multifunctional Water Quality Tester
- 5x Calibration Powder packets
- 1x Instruction Manual (English)

2. SETUP AND INITIAL USE

2.1 Battery Installation

The BLE-9908 uses 3*1.5V (LR44) button cell batteries. Ensure correct polarity when inserting. The device features a low battery indicator on the display.

2.2 Connecting to the Mobile App (YINMIK App)

The BLE-9908 supports Bluetooth 5.2 for data synchronization with your smartphone.

1. Ensure Bluetooth is enabled on your smartphone.
2. Download and open the "YINMIK" App from your device's app store (available for Android and Apple iOS).
3. Press and hold the **ON/OFF** button on the BLE-9908 for approximately 8 seconds to activate the instrument's Bluetooth function.
4. Follow the on-screen prompts in the YINMIK App to pair with your BLE-9908 device.



Figure 2: Bluetooth Connection and Application Scenarios. This image illustrates the simple steps to connect the meter via Bluetooth to a smartphone and shows various applications like swimming pools, tap water, brewing, environmental monitoring, laboratory, and hydroponics.

3. OPERATION

3.1 Taking Measurements

1. Ensure the electrode is clean and dry before use.
2. Press the **ON/OFF** button to power on the device.
3. Immerse the electrode into the sample solution, ensuring the sensor is fully submerged.
4. Allow the reading to stabilize on the LCD screen. The device will display pH, EC, TDS, and Temperature simultaneously.
5. Press the **HOLD/TEMP** button to hold the current reading on the display. Press again to release.
6. To switch between temperature units ($^{\circ}\text{C}/^{\circ}\text{F}$), press and hold the **HOLD/TEMP** button.

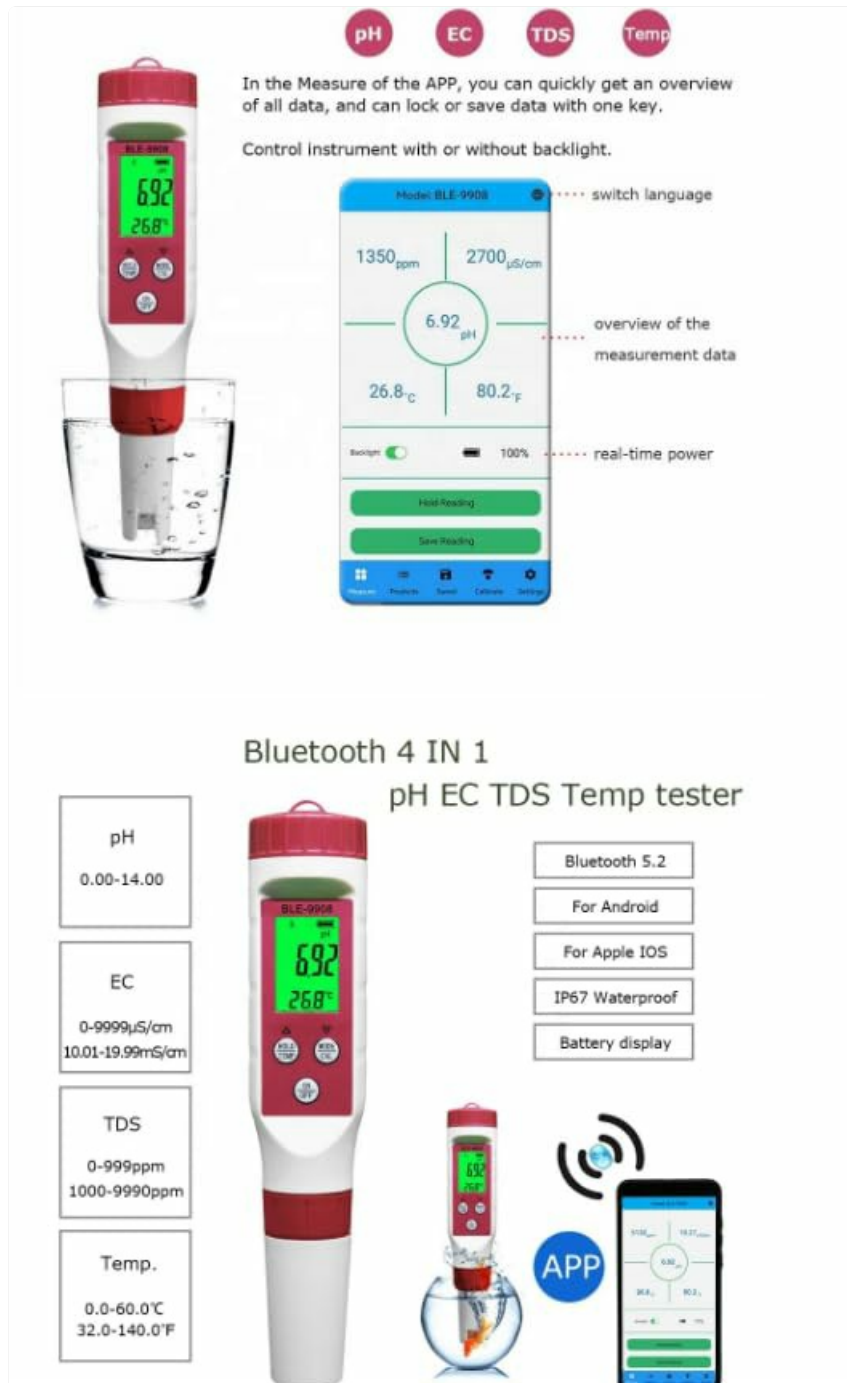


Figure 3: App Interface Overview. This image shows the BLE-9908 meter and its corresponding mobile application interface, highlighting the display of pH, EC, TDS, and Temperature readings, along with options for backlight control, language switching, and real-time power display.

3.2 Calibration

Regular calibration ensures the accuracy of your meter. pH calibration is user-adjustable, while EC and TDS are factory calibrated.

pH Calibration:

The meter supports 3-point pH calibration. Use the provided calibration powders.

1. Prepare the calibration solutions according to the instructions on the powder packets.
2. Press the **MODE/CAL** button to enter calibration mode.
3. Follow the on-screen prompts to calibrate at the specified pH buffer points (e.g., 4.00, 6.86/7.00, 9.18/10.01).
4. Rinse the electrode with distilled water between each buffer solution.

EC/TDS Calibration:

EC and TDS are factory calibrated at 1413 μ s/cm. For optimal accuracy, it is recommended to use the factory calibration or consult the manufacturer for advanced calibration procedures if necessary.

3.3 App Functions and Data Management

The YINMIK App provides extensive control and data management capabilities:

- **Overview of Data:** Quickly view all measurement data (pH, EC, TDS, Temp) in one place.
- **Lock/Save Data:** Lock current readings or save data with a single key press.
- **Control Backlight:** Control the instrument's backlight directly from the app.
- **Switch Language:** Change the app's language settings.
- **Real-time Power:** Monitor the device's battery level.
- **Recall Saved Data:** Access previously saved measurement records.
- **Export Data:** Save measurement data as an Excel sheet for further analysis.
- **Print Data:** Print measurement data directly from the app.
- **Share Data:** Share measurement data with colleagues or friends.
- **Recall Calibration Record:** View past calibration records.

Automatic save data

BLE-9908

pH 6.92

26.8°C

Model: BLE-9908

RS485 TO USB Telecom product For aquarium

Second generation -Bluetooth

Patented products, Counterfeiting must be punished.

First generation -Common

Model: BLE-9908

BLE-9908	2021-09-26 17:23:19	EC:2700µS/cm,TDS:1350ppm,pH:9.39,24.9°C,76.8°F
BLE-9908	2021-09-26 17:22:01	EC:0µS/cm,TDS:0ppm,pH:9.39,24.6°C,76.3°F
BLE-9908	2021-09-26 17:21:25	EC:2050µS/cm,TDS:1020ppm,pH:9.39,24.7°C,76.5°F
BLE-9908	2021-09-26 17:20:52	EC:14.63mS/cm,TDS:7310ppm,pH:9.39,24.8°C,76.6°F
BLE-9908	2021-09-26 17:20:33	EC:4090µS/cm,TDS:2040ppm,pH:9.39,24.8°C,76.6°F
BLE-9908	2021-09-26 17:20:00	EC:2060µS/cm,TDS:1030ppm,pH:9.39,24.7°C,76.5°F
BLE-9908	2021-09-26 17:19:41	EC:5630µS/cm,TDS:2810ppm,pH:10.06,24.7°C,76.5°F
BLE-9908	2021-09-26 17:19:15	EC:3490µS/cm,TDS:4240ppm,pH:6.98,24.8°C,76.6°F
BLE-9908	2021-09-26 17:18:45	EC:4090µS/cm,TDS:2040ppm,pH:3.96,24.8°C,76.6°F
BLE-9908	2021-09-26 17:18:15	EC:4310µS/cm,TDS:2110ppm,pH:7.00,24.8°C,76.6°F

Model: BLE-9908

BLE-9908	2021-09-26 17:22:58	EC: 2720 µS/cm
BLE-9908	2021-09-26 17:21:07	EC: 14.64 mS/cm
BLE-9908	2021-09-26 17:20:31	EC: 4090 µS/cm
BLE-9908	2021-09-26 17:20:06	EC: 2060 µS/cm
BLE-9908	2021-09-26 17:19:39	pH: 10.01
BLE-9908	2021-09-26 17:19:12	pH: 7.00
BLE-9908	2021-09-26 17:18:39	pH: 4.00
BLE-9908	2021-09-26 17:18:05	pH: 6.86

- ✓ View new products information
- ✓ Recall saved measurement data
- ✓ Save measurement data as EXCEL form
- ✓ Print measurement data
- ✓ Share measurement data with your friends, colleagues, boss
- ✓ Recall calibration record

Figure 4: Automatic Data Saving and App Features. This image demonstrates the app's capability to automatically save data and lists various functions such as viewing new product information, recalling saved data, saving as Excel, printing, sharing, and recalling calibration records.

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.

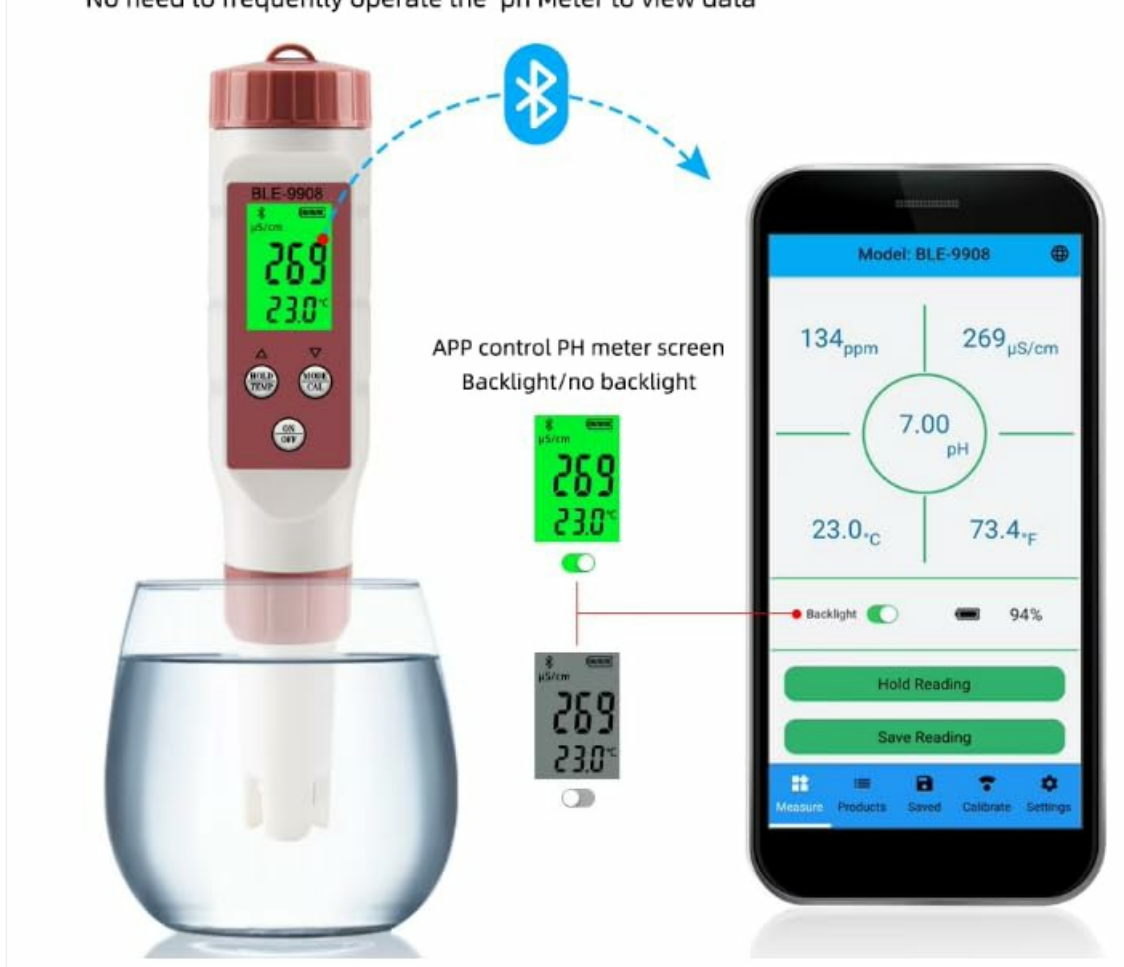


Figure 5: Data Synchronization Display. This image illustrates how the pH meter's data is synchronized to the mobile app, allowing multiple data points to be displayed simultaneously for convenient and quick viewing without frequent operation of the meter.

4. MAINTENANCE

4.1 Electrode Care

- Always rinse the electrode thoroughly with distilled or deionized water before and after each use.
- Do not touch the electrode's sensitive glass bulb or sensor with your fingers.
- Store the electrode in a suitable storage solution (e.g., KCL solution or pH 4 buffer) when not in use to prevent it from drying out. Never store dry.

4.2 Electrode Replacement

The BLE-9908 features a replaceable electrode. If the electrode becomes damaged or its performance degrades significantly despite proper cleaning and calibration, it can be replaced. Refer to the manufacturer's guidelines for purchasing and installing a new electrode.

4.3 Cleaning the Device

Wipe the main body of the meter with a clean, damp cloth. Do not use abrasive cleaners or immerse the main unit in water.

5. TROUBLESHOOTING

This section provides general guidance for common issues. For more complex problems, please contact customer support.

Problem	Possible Cause	Solution
Inaccurate readings	Electrode dirty or dry; Calibration needed; Expired calibration solution.	Clean electrode; Perform calibration; Use fresh calibration solutions.
No display/Power issues	Low or dead batteries; Incorrect battery installation.	Replace batteries; Check battery polarity.
Bluetooth connection failure	Bluetooth not enabled on device/phone; App not open; Meter not in pairing mode.	Ensure Bluetooth is on; Open YINMIK App; Press ON/OFF for 8s to activate meter's Bluetooth.

6. SPECIFICATIONS

Parameter	Value
Model Number	BLE-9908
pH Range	0.00-14.00 pH
pH Resolution	0.01 pH
pH Accuracy	±0.05 pH
EC Range	0-9999 µS/cm; 10.01-19.99 mS/cm
EC Resolution	1 µS/cm; 0.01 mS/cm
EC Accuracy	±2% F.S.
TDS Range	0-9999 ppm
TDS Resolution	1 ppm
TDS Accuracy	±2% F.S.
Temperature Range	0.0-60.0°C (32.0-140.0°F)
Temperature Resolution	0.1°C (0.1°F)
Temperature Accuracy	±0.5°C
ATC (Automatic Temperature Compensation)	0.0-60.0°C (32.0-140.0°F)
Environment	0.1°C-80.0°C; RH: max 90%
Waterproof Rating	IP67
Battery	3*1.5V (LR44)
Dimensions	187 x 37 x 37 mm (7.36 x 1.46 x 1.46 in)
Weight	95g
Backlight	Yes, with mobile control
Bluetooth Version	5.2
Data Save	As Excel sheet
Electrode	Replaceable

BLE-9908



Product Discription		
Range	TDS	0-9999ppm
	EC	0-9999 μ S/cm ; 10.01-19.99mS/cm
	pH	0.00-14.00pH
	Temp.	0.0-60.0 $^{\circ}$ C ; 32.0-140.0 $^{\circ}$ F
Resolution	TDS	1ppm
	EC	1 μ S/cm ; 0.01mS/cm
	pH	0.01pH
	Temp.	0.1 $^{\circ}$ C ; 0.1 $^{\circ}$ F
Accuracy	TDS/EC	\pm 2% F.S.
	pH	\pm 0.05pH
	Temp.	\pm 0.5 $^{\circ}$ C
Calibration	TDS/EC	1413 μ S/cm ; 12.88mS/cm
	pH	4.00/6.86/9.18 or 4.00/7.00/10.01 (Calibration records can be viewed)
ATC	0.0-60.0 $^{\circ}$ C ; 32.0-140.0 $^{\circ}$ F	
Environment	0.1 $^{\circ}$ C-80.0 $^{\circ}$ C ; RH: max 90%	
Waterproof	IP67	
Battery	3*1.5V (LR44) low battery indicator	
Dimensions	187*37*37mm (7.36*1.46*1.46 in)	
Weight	95g	

Backlights	with backlights, support mobile control .
Bluetooth	Support bluetooth 5.2 Version
Printing	Support printing
Data Save	save as excel sheet
Electrode	Replaceable

Figure 6: Detailed Product Specifications. This image presents a comprehensive table outlining the technical specifications of the BLE-9908 meter, including ranges, resolutions, accuracies, environmental conditions, and physical attributes.

7. SUPPORT

For further assistance, technical support, or warranty inquiries, please contact VIHELM customer service through the contact information provided with your purchase or on the official VIHELM website.

