

[Manuals.plus](#) /

› [Baxnore](#) /

› Baxnore Handheld Water Tester YY-400H User Manual

Baxnore YY-400H

Baxnore Handheld Water Tester

MODEL: YY-400H

Introduction

The Baxnore YY-400H Handheld Water Tester is a precision instrument designed for accurate measurement of water quality, specifically hydrogen concentration (ppb/ppm) and temperature. Its robust, submersible design and replaceable probe make it suitable for a wide range of applications, from laboratory use to industrial and environmental monitoring.



Figure 1: The Baxnora YY-400H Water Tester illustrating its diverse applications in different environments.

Package Contents

Upon unpacking, please verify that all items listed below are present and in good condition:

- 1 x Baxnora YY-400H Water Detector
- 1 x User Manual

Product Features

- **Industrial-Grade Measurement Accuracy:** Measures 0-2400ppb (0.002ppm resolution) with ± 10 ppb accuracy for trace pollution detection. Simultaneously monitors 0.1°C-60.0°C water temperature ($\pm 0.5^\circ\text{C}$).
- **Submersible Design:** IP67 rated, fully submersible design withstands 30-minute immersion at 1m depth. Reinforced ABS housing ensures durability in various conditions.

- **Modular Probe System:** Features a thread-detachable electrode for quick replacement without tools. The sensor maintains calibration through extensive test cycles. Includes an O-ring kit for maintaining waterproof integrity.
- **Operating Features:** Includes an auto-hold function to freeze readings during turbulent measurements. A backlit display ensures visibility in low-light conditions. The single-button interface simplifies operation.
- **Multi-Industry Validation:** Suitable for hydroponic nutrient monitoring, industrial cooling tower analysis, and operates reliably across a wide temperature range (-10°C to 60°C).



Water Quality Detector H2 Test Pen
High sensitivity electrode, accurate measurement
Probe plug in design, removable and replaceable

Figure 2: The YY-400H in an outdoor testing scenario, demonstrating its robust design and replaceable probe.

Specifications

Parameter	Value
Model	YY-400H

Parameter	Value
Material	ABS
Hydrogen Range	0~2400ppb; 0.00~2.400ppm
Hydrogen Resolution	2ppb; 0.002ppm
Hydrogen Accuracy	±10ppb; ±0.01ppm
Temperature Range	0.1°C~60.0°C; 32.0°F~140.0°F
Temperature Resolution	0.1°C; 0.1°F
Temperature Accuracy	±0.5°C
Waterproof Rating	IP67
Package Weight	87 Grams

Setup

- Unpack the Device:** Carefully remove the YY-400H water tester and user manual from its packaging.
- Inspect the Probe:** Ensure the replaceable probe is securely attached. If not, gently screw it into place until snug. Do not overtighten.
- Initial Cleaning:** Before first use, rinse the probe tip with distilled water to remove any manufacturing residues.
- Power On:** Press the **Power** button () to turn on the device. The backlit display should illuminate.



Figure 3: Detailed view of the YY-400H display and control panel.

Operating Instructions

1. **Power On:** Press the **Power** button to turn on the device.
2. **Immerse the Probe:** Dip the probe end of the tester into the water sample you wish to measure. Ensure the probe is fully submerged.
3. **Read Measurement:** Allow a few seconds for the reading to stabilize on the digital display. The primary reading will show hydrogen concentration (ppb/ppm), and the secondary reading will show temperature (°C/°F).
4. **Hold Function:** To freeze the current reading on the display, press the **HOLD/TEMP** button. Press it again to release the hold and resume live readings.
5. **Temperature Unit Switch:** While in live reading mode, a short press of the **HOLD/TEMP** button will toggle between Celsius (°C) and Fahrenheit (°F) temperature units.
6. **Power Off:** Press the **Power** button again to turn off the device after use.



Backlight Display
Temperature Compensation
IP67 Waterproof
Data Retention

Figure 4: The YY-400H in operation, measuring water from a tap.

Calibration

The YY-400H features a **MODE/CAL** button for calibration. Regular calibration ensures the accuracy of your measurements. Refer to the specific calibration solution requirements for hydrogen testers.

1. **Prepare Calibration Solution:** Obtain a standard hydrogen calibration solution (e.g., 1000ppb or 1.000ppm).
2. **Enter Calibration Mode:** With the device powered on and the probe clean, immerse the probe into the calibration solution. Press and hold the **MODE/CAL** button until "CAL" appears on the display.
3. **Stabilize Reading:** Allow the reading to stabilize. The device will automatically recognize the calibration solution.
4. **Confirm Calibration:** Once stable, the device will indicate successful calibration (e.g., "END" or a stable reading matching the solution). Remove the probe and rinse with distilled water.
5. *Note:* If calibration fails or readings are inconsistent, repeat the process or consider replacing the probe.

Maintenance

- **Cleaning the Probe:** After each use, rinse the probe thoroughly with distilled water to prevent contamination and residue buildup. Do not use abrasive materials or strong chemicals.
- **Probe Storage:** Store the probe with its protective cap on to keep it moist and prevent damage.
- **Probe Replacement:** The modular probe system allows for easy replacement. To replace, unscrew the old probe counter-clockwise and screw in a new one clockwise until secure. Ensure the O-ring is properly seated to maintain waterproof integrity.
- **Battery Replacement:** When the battery indicator appears on the display, replace the batteries. *(Specific battery type and replacement instructions are not provided in the source data, refer to the physical manual for details.)*



Figure 5: The replaceable probe of the YY-400H, highlighting its modular design for easy maintenance.

Troubleshooting

Problem	Possible Cause	Solution
No display/Device won't turn on	Low or dead batteries; Device malfunction	Replace batteries; Contact customer support if issue persists.
Inaccurate readings	Probe is dirty; Probe needs calibration; Probe is damaged/worn out	Clean probe with distilled water; Perform calibration; Replace the probe.
Reading fluctuates excessively	Turbulent sample; Probe not fully submerged; Electrical interference	Ensure sample is still; Fully submerge probe; Move away from strong electrical fields. Use HOLD function if needed.
"CAL" error during calibration	Incorrect calibration solution; Contaminated probe; Damaged probe	Verify calibration solution; Clean probe thoroughly; Replace probe if necessary.

Warranty and Support

Baxnore products are manufactured to high-quality standards. For warranty information, technical support, or service inquiries, please refer to the contact details provided on the product packaging or visit the official Baxnore website. Keep your purchase receipt as proof of purchase for warranty claims.

ASK A QUESTION ABOUT THIS MANUAL

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page’s manual context to help answer it.

Name

Anonymous

Email

you@example.com

After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. [Privacy details](#).

Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question