

## Yewhick STW-YY-1070

# Yewhick 7-in-1 Digital Water Quality Tester Instruction Manual

Model: STW-YY-1070

## 1. PRODUCT OVERVIEW

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The Yewhick 7-in-1 Digital Water Quality Tester (Model STW-YY-1070) is a versatile instrument designed for accurate measurement of various water parameters. This device provides readings for Free Available Chlorine (FAC), pH, Salinity (Salt), Electrical Conductivity (EC), Total Dissolved Solids (TDS), Oxidation-Reduction Potential (ORP), and Temperature. It is suitable for a wide range of applications including swimming pools, saltwater aquariums, hot tubs, spas, hydroponic systems, and drinking water quality monitoring.



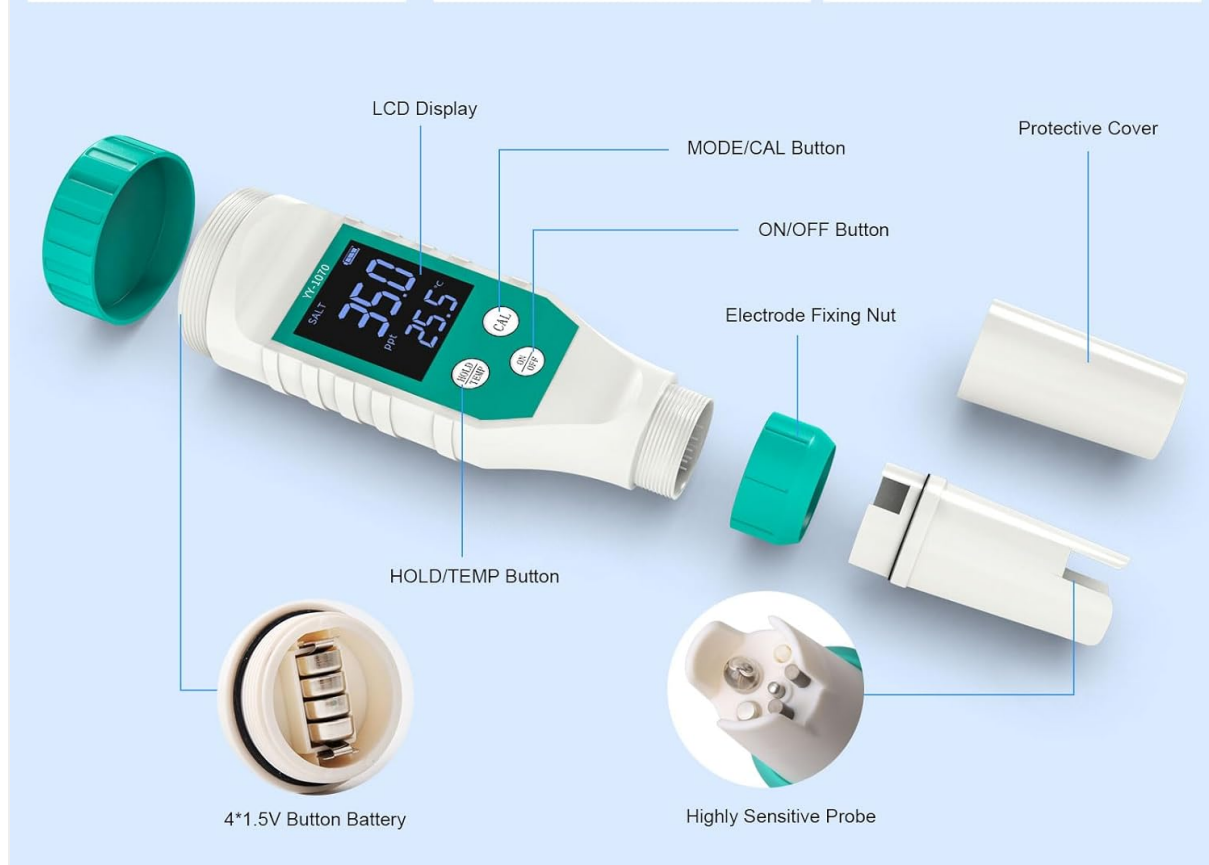
**Image 1.1:** The Yewhick 7-in-1 Digital Water Quality Tester, showing its sleek design and digital display with water splashing around it.

## 2. KEY FEATURES

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- **7-in-1 Functionality:** Measures FAC, pH, Salt, EC, TDS, ORP, and Temperature.
- **Digital Display:** Clear, backlit LCD for easy reading of measurements.
- **Waterproof Design:** IP67 rated for protection against water immersion.
- **High Accuracy Probe:** Equipped with a sensitive probe for reliable results.
- **Automatic Temperature Compensation (ATC):** Ensures accurate readings across varying temperatures (0°C-50°C; 32°F-122°F).
- **Detachable Electrode:** Allows for easy replacement and maintenance.
- **Battery Operated:** Uses 4 x 1.5V button batteries for portability.
- **Hold Function:** Freezes the current reading on the display.
- **Auto Calibration:** Simplifies the calibration process for pH and other parameters.

<b>Backlit LCD Display</b> Easy To Read	<b>Waterproof</b> IP67 Water Proof	<b>Probe</b> Highly Sensitive Probe
<b>Electrode</b> Detachable Replacement	<b>Battery</b> 4*1.5V Button batteries	<b>ATC</b> 0°C-50°C;32°F-122.0F
<b>pH</b> 0.00-14.00 PH	<b>Salt</b> 0,01%-25,00%; 0-10000ppm;10,1-200,0ppt	<b>FAC</b> 0.1- 4.00ppm



**Image 2.1:** Diagram illustrating the components of the Yewhick 7-in-1 tester, including the LCD display, battery compartment, protective cover, electrode fixing nut, and highly sensitive probe.

### 3. SETUP AND BATTERY INSTALLATION

- 1. Unpack the Device:** Carefully remove the tester and all accessories from the packaging.
- 2. Battery Installation:**
  - Unscrew the top cap of the tester to access the battery compartment.
  - Insert four 1.5V button batteries, ensuring correct polarity (+/-).
  - Securely screw the cap back on.
- 3. Initial Rinse:** Before first use, rinse the probe with distilled water to remove any manufacturing residues.
- 4. Protective Cover:** Always ensure the protective cover is on the probe when not in use to prevent damage and keep the sensor moist.

### 4. OPERATING INSTRUCTIONS

#### 4.1 Basic Operation

- 1. Power On/Off:** Press the **ON/OFF** button to turn the tester on or off.

2. **Immerse Probe:** Dip the probe into the water sample, ensuring the sensor is fully submerged but not the entire device.
3. **Read Measurement:** Wait for the reading to stabilize on the LCD screen.
4. **Hold Reading:** Press the **HOLD/TEMP** button to freeze the current reading on the display. Press again to release.
5. **Temperature Unit:** While in HOLD mode, press the **HOLD/TEMP** button to switch between Celsius (°C) and Fahrenheit (°F).
6. **Switch Modes:** Press the **MODE/CAL** button to cycle through the different measurement parameters (FAC, pH, Salt, EC, TDS, ORP).
7. **Clean After Use:** After each use, rinse the probe thoroughly with distilled water and replace the protective cap.

## 4.2 Salinity Measurement Modes

The tester supports multiple units for salinity measurement. When the PPM value exceeds 10,000, it will automatically convert to PPT. You can cycle through %, PPT, and PPM modes using the MODE button.

- %: Percentage.
- PPT: Parts per thousand.
- PPM: Parts per million.

## TWO TEST MODES OF SALINITY



When PPM value reaches 10000, it will be automatically converted to PPT value

**Note:** 1 ppt = 10000 ppm = 0.1%

0.01%-25.00%



%

10.1-200.0ppt



PPT

1-10000ppm



PPM

Fresh water



<0.5ppt

Normal Saline



9ppt / 0.9%

Aquarium Water



30-35ppt

Sea Water

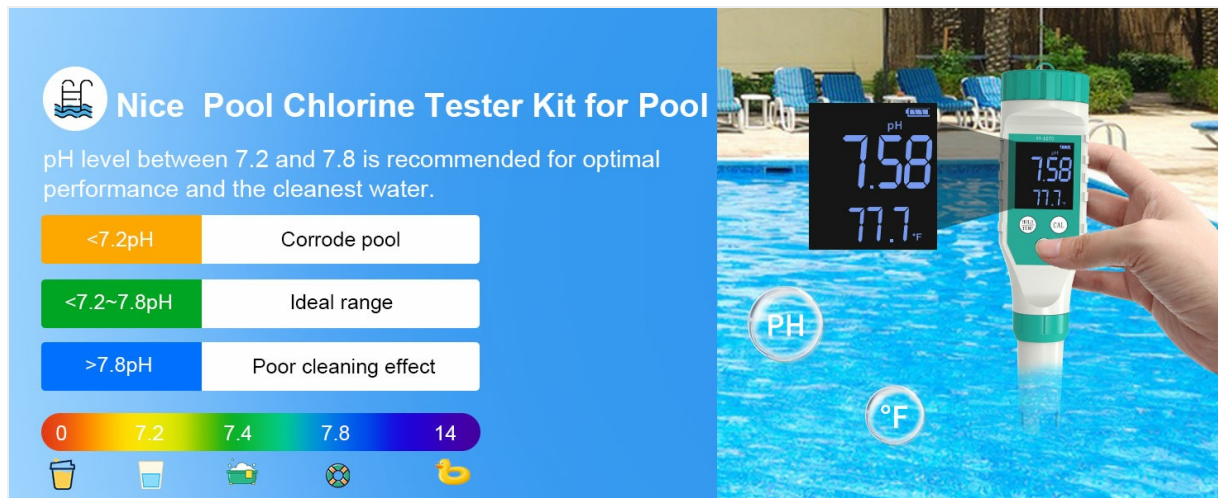


30-35ppt

**Image 4.1:** Visual representation of the two salinity test modes (PPT and PPM) and their application ranges for different water types like fresh water, normal saline, aquarium water, and sea water.

### 4.3 Recommended Water Parameter Ranges

- **Free Chlorine (FAC):** Ideal range for most pools is 1-3 ppm.
- **Salt (Salinity):** Ideal for saltwater pools and hot tubs is 2700-3400 ppm.
- **pH:** Ideal range for pools is 7.2-7.8.
- **EC (Hydroponics):** Optimal range is 800-2400 uS/cm.



**Image 4.2:** Chart illustrating recommended pH levels for pools, indicating ranges for corrosion, ideal conditions, and poor cleaning effect.

## 5. CALIBRATION

The Yewhick 7-in-1 tester comes factory-calibrated. However, regular calibration is recommended to maintain accuracy, especially for pH and other critical parameters. Calibration solutions are included with your device.

### 5.1 pH Calibration

1. Prepare pH 4.00, pH 7.00, and pH 10.00 buffer solutions.
2. Turn on the tester and immerse the probe into the pH 7.00 buffer solution.
3. Press and hold the **MODE/CAL** button until the display shows 'CAL'. The tester will automatically recognize the buffer solution.
4. Once calibration for pH 7.00 is complete (indicated by a stable reading), rinse the probe with distilled water.
5. Repeat the process for pH 4.00 and pH 10.00 solutions.

### 5.2 Other Parameter Calibration

Refer to the specific instructions provided with your calibration solutions for FAC, Salinity, EC, TDS, and ORP, as these may vary. The general procedure involves immersing the probe in the standard solution and initiating the calibration mode.

# MULTIFUNCTIONAL TESTER

Suitable for most water quality tests



**Image 5.1:** The Yewhick 7-in-1 tester packaging, showing the included calibration buffer solutions (pH 4.00, pH 7.00, ORP 222mV) for accurate calibration.

## 6. MAINTENANCE

- **Probe Cleaning:** Always rinse the probe with distilled water after each use to prevent contamination and ensure accurate readings.
- **Electrode Storage:** Keep the electrode moist by ensuring the protective cap is securely in place when not in use. If the electrode dries out, soak it in electrode storage solution or pH 7.00 buffer solution for several hours before use.
- **Battery Replacement:** Replace batteries when the low battery indicator appears on the display. Ensure correct polarity during installation.
- **Electrode Replacement:** Electrodes are replaceable. If the tester consistently provides inaccurate readings despite calibration, or if the probe is visibly damaged, consider replacing the electrode. A 3-month interval for non-human damage is suggested for electrode replacement.
- **General Care:** Store the tester in a cool, dry place away from direct sunlight and extreme temperatures. Avoid dropping or subjecting the device to strong impacts.

## 7. TROUBLESHOOTING

Problem	Possible Cause	Solution
Inaccurate readings	Probe is dirty or dry; Calibration needed; Low battery.	Clean and re-moisten probe; Perform calibration; Replace batteries.
Display shows '---' or erratic values	Probe not fully submerged; Damaged probe; Out of measurement range.	Ensure probe is submerged; Check probe for damage, replace if necessary; Verify sample is within tester's range.
Tester does not turn on	Dead batteries; Incorrect battery installation.	Replace batteries; Check battery polarity.
Slow response time	Probe is dirty or aged.	Clean probe thoroughly; Consider electrode replacement if issue persists.

## 8. SPECIFICATIONS

Parameter	Range	Resolution
Function	pH, FAC, Salt, TDS, EC, ORP, Temp	
ORP Range	±999mV	1mV
FAC Range	0.1-4.0ppm	0.1ppm
pH Range	0.00-14.00 pH	0.01 pH
TDS Range	0-10000ppm; 10.1-200.0ppt	1ppm / 0.1 ppt
Salt Range	0.01%-25.00%; 0-10000ppm; 10.1-200.0ppt	0.01% / 1ppm / 0.1 ppt
EC Range	0-10000uS/cm; 10.01-19.99mS/cm; 20.1-400.0mS/cm	1uS/cm / 0.01 mS/cm
Calibration	4.00/7.00/10.00pH; 1413uS/cm; 12.88mS/cm; 222mV	
Temperature	0°C-50°C (32°F-122°F)	0.1°C/°F
Product Dimensions	4.7 x 1.1 x 1.1 inches	
Item Weight	14.39 ounces	
Model Number	STW-YY-1070	



**Image 8.1:** Detailed product features and specifications, including measurement ranges and resolutions for all 7 parameters.

## 9. WARRANTY AND SUPPORT

Yewhick is committed to providing high-quality products and customer service.

- **Return/Replacement Policy:** Enjoy a 30-day free return or replacement period from the date of purchase.
- **Electrode Warranty:** Electrodes are replaceable, with a 3-month interval for non-human damage.
- **Customer Support:** For any questions or concerns regarding your Yewhick 7-in-1 tester, please contact our customer support via email. We promise to respond within 12 hours to provide a satisfactory resolution.

### Our Service

**YEWHICK**

*Yewhick 7 in 1 FAC pool tester is committed to providing high-quality guaranteed services. 30-day free return/replacement. Electrodes are replaceable, with a 3-month interval for non-human damage. If you are not satisfied with our FAC tester, please contact us via email and we will give you a satisfactory answer within 12 hours.*

### Nice 7 in 1 Pool Chlorine Tester Kit

Equipped with required calibration solutions



**Image 9.1:** Illustration of the Yewhick 7-in-1 tester kit, highlighting the included calibration solutions and emphasizing customer service.