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## YINMIK YK-E01

# YINMIK Water Quality Tester Instruction Manual

Model: YK-E01

## INTRODUCTION

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The YINMIK Water Quality Tester (Model YK-E01) is a versatile 3-in-1 digital meter designed to accurately measure Total Dissolved Solids (TDS), Electrical Conductivity (EC), and temperature of various water sources. This device features a large horizontal screen display for simultaneous readings and incorporates Automatic Temperature Compensation (ATC) for reliable results across different temperatures. It is suitable for monitoring household drinking water, RO/RI systems, tap water, filtered water, as well as for applications in hydroponics, aquariums, and pond water testing.



Image: The YINMIK YK-E01 Water Quality Tester, showing its compact design and digital display.

## KEY FEATURES

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- **Multi-Mode Testing:** Offers 6 modes including TDS (PPM 500, PPM 700), Conductivity ( $\mu\text{S}/\text{cm}$ ,  $\text{mS}/\text{cm}$ ), and Temperature ( $^{\circ}\text{C}/^{\circ}\text{F}$ ).
- **Dual TDS Standards:** PPM 500 mode for household drinking water and PPM 700 mode for groundwater, lake water, streams, well water, and boiler water.
- **Large Horizontal Screen:** Provides clear and accurate values, displaying temperature simultaneously with TDS or EC readings.
- **Automatic Temperature Compensation (ATC):** Ensures accurate readings regardless of water temperature fluctuations.
- **No Calibration Required:** Designed for accurate and stable test values without complex calibration.
- **Portable Design:** Pocket-sized for easy carrying and testing anywhere.

# Professional **TDS&EC Meter** With 6 Test Mode



TDS-PPM500



TDS-PPM700



Conductivity- $\mu$ S



Conductivity-mS



Fahrenheit-°F



Celsius-°C



Image: Visual representation of the 6 test modes available on the YINMIK YK-E01 meter, including TDS (PPM 500, PPM 700), Conductivity ( $\mu$ S/cm, mS/cm), and Temperature ( $^{\circ}$ F,  $^{\circ}$ C).

## SETUP AND INITIAL USE

### Unpacking and Inspection

Upon receiving your YINMIK Water Quality Tester, carefully remove it from its packaging. Inspect the device for any visible damage. Ensure all components, including the meter and protective cap, are present.

### Battery Installation

The device typically comes with batteries pre-installed. If not, locate the battery compartment, usually on the back or top of the device, and insert the required batteries, observing polarity markings.

### First Use

1. Remove the protective cap from the electrode.

2. Press the **ON/OFF** button to power on the meter.
3. The display will illuminate, showing current readings or a standby screen.

## OPERATING INSTRUCTIONS

### Taking a Measurement

1. Ensure the meter is clean and dry before use.
2. Immerse the electrode into the water sample up to the immersion line. Do not immerse the entire meter.
3. Gently stir the meter to remove any air bubbles.
4. Wait for the reading to stabilize on the display. The horizontal display shows TDS/EC and temperature simultaneously.
5. Press the **HOLD/TEMP** button to freeze the reading on the display for easier recording. Press again to release.
6. Remove the meter from the water and wipe the electrode clean with a soft cloth.

# Accurate TDS Meter

(PPM500 PPM700)



## TDS (PPM 500 Mode)

Suitable for Drinking water,  
Filtered water, Bottled water



## TDS (PPM 700 Mode)


Suitable for River, Lake,  
Well Water, Boiler Water

mode.

## Changing Measurement Modes

The YINMIK YK-E01 supports 6 different measurement modes. To cycle through these modes:

- Press the **MODE/CAL** button repeatedly to switch between TDS (PPM 500), TDS (PPM 700), Conductivity ( $\mu\text{S}/\text{cm}$ ), Conductivity ( $\text{mS}/\text{cm}$ ), Temperature ( $^{\circ}\text{C}$ ), and Temperature ( $^{\circ}\text{F}$ ).
- Select the appropriate mode based on your testing requirements.



The image shows a white digital TDS tester with a blue top and a digital display. The display shows '33' in large green digits, with 'PPM 500' and '77.0 °F' below it. Below the display are three buttons: a power button labeled 'ON/OFF', a lock button labeled 'HOLD/TEMP', and a mode/call button labeled 'MODE/CAL'. To the right of the device is a chart titled 'Digital TDS Tester' and 'TDS in PPM'.

### TDS in PPM

Total Dissolved Solids in parts per million

0	Total Dissolved Solids in parts per million
50	Purified Water
100	Hard Water
200	Marginally Acceptable
300	Ordinary Tap Water
400	Mineral Water
500+	Not Recommended for Drinking

Image: A chart illustrating typical TDS values in PPM for various water types, ranging from purified water to water not recommended for drinking.

## Understanding Readings

- **TDS (Total Dissolved Solids):** Measured in parts per million (PPM). Indicates the total concentration of dissolved substances in water.
  - PPM 500 mode: Primarily for household drinking water.

- PPM 700 mode: For groundwater, lake water, streams, well water, and boiler water.
- **EC (Electrical Conductivity):** Measured in microSiemens per centimeter ( $\mu\text{S}/\text{cm}$ ) or milliSiemens per centimeter ( $\text{mS}/\text{cm}$ ). Indicates the ability of water to conduct electricity, which is directly related to the concentration of dissolved ions.
- **Temperature:** Measured in degrees Celsius ( $^{\circ}\text{C}$ ) or Fahrenheit ( $^{\circ}\text{F}$ ).

## Digital Hydroponics PPM EC Tester



Image: The YINMIK meter being used to test EC in a hydroponic setup and PPM in a pond, demonstrating its versatility for different water quality monitoring needs.

## MAINTENANCE

### Cleaning the Electrode

After each use, rinse the electrode thoroughly with distilled or deionized water to prevent contamination and residue buildup. Gently wipe the electrode dry with a soft, lint-free cloth. Do not use abrasive materials or harsh chemicals.

## Storage

Always replace the protective cap on the electrode when the meter is not in use. Store the meter in a cool, dry place, away from direct sunlight and extreme temperatures. Keep out of reach of children.

## Battery Replacement

If the display becomes dim or the meter does not power on, it may be time to replace the batteries. Refer to the battery compartment for the correct battery type and polarity. Dispose of old batteries responsibly.

## TROUBLESHOOTING

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Problem	Possible Cause	Solution
Meter does not power on.	Dead or incorrectly installed batteries.	Check battery polarity; replace batteries if necessary.
Inaccurate or fluctuating readings.	Dirty electrode; air bubbles on electrode; incorrect mode selected; extreme temperature changes.	Clean electrode; gently stir to remove bubbles; ensure correct mode is selected; allow meter to acclimate to sample temperature (ATC function helps minimize this).
Display is dim or unreadable.	Low battery power.	Replace batteries.

If you encounter issues not listed here or if the problem persists, please contact YINMIK customer service for assistance.

## SPECIFICATIONS

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- **Model:** YK-E01
- **Measurement Modes:** TDS (PPM 500, PPM 700), EC ( $\mu\text{S}/\text{cm}$ ,  $\text{mS}/\text{cm}$ ), Temperature ( $^{\circ}\text{C}/^{\circ}\text{F}$ )
- **Temperature Compensation:** Automatic Temperature Compensation (ATC)
- **Display:** Horizontal Digital HD Backlit Display
- **Dimensions:** Approximately 8.39 x 2.99 x 1.54 inches
- **Weight:** Approximately 4.97 ounces
- **Manufacturer:** JiNan Huiquan Electronic Co., Ltd

## WARRANTY INFORMATION

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YINMIK offers a 365-day free return policy for the YK-E01 EC TDS tester. This warranty covers defects in materials and workmanship under normal use. Please retain your proof of purchase for warranty claims. The warranty does not cover damage caused by misuse, accident, unauthorized modification, or improper storage.

## CUSTOMER SUPPORT

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For any questions regarding the YINMIK Water Quality Tester, technical assistance, or warranty claims, please contact YINMIK customer service. We promise to respond to your inquiries within 18 hours.

**Manufacturer:** JiNan Huiquan Electronic Co., Ltd

**Brand:** YINMIK

**Online Store:** YINMIK Store on Amazon

