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> YINMIK YK-5 5-in-1 pH TDS EC Salinity Temperature Meter User Manual

YINMIK YK-5

YINMIK YK-5 5-in-1 Water Quality Tester User Manual

Model: YK-5 | Brand: YINMIK

1. INTRODUCTION AND OVERVIEW

The YINMIK YK-5 is a versatile 5-in-1 digital water quality tester designed for accurate measurement of pH, Total Dissolved Solids (TDS), Electrical Conductivity (EC), Salinity, and Temperature. This multi-parameter meter is an essential tool for various applications including swimming pools, spas, aquariums, hydroponic systems, and household drinking water testing. Its compact design and user-friendly interface make it suitable for both professional and home use.



Figure 1: YINMIK YK-5 5-in-1 Water Quality Tester. This image shows the blue-colored YK-5 meter with its digital display showing readings, and the protective cap removed from the probe.

2. PRODUCT FEATURES

- **Multi-parameter Measurement:** Measures pH, TDS, EC, Salinity, and Temperature.
- **Wide Application:** Ideal for pools, spas, aquariums, hydroponics, and drinking water.
- **Easy Calibration:** Comes with pH calibration buffers for convenient and accurate calibration.
- **Replaceable Probe:** Features a replaceable probe design to extend the product's lifespan and reduce long-term costs.
- **Large Salt Range:** Supports a wide salinity range for both swimming pool (0-9990ppm) and seawater (0.00-200.0ppt) testing.
- **Green LCD Display:** Easy-to-read green LCD display for clear visibility of measurements.
- **Hold Data Function:** Allows users to lock the reading for easy recording.
- **Automatic Temperature Compensation (ATC):** Ensures accurate readings across varying temperatures.



5 in 1 Mode
(pH/Salinity/EC/TDS/Temp)



Hold Data Function
(Easy to Record)

Figure 2: YK-5 display and functions. This image highlights the meter's green LCD display, indicating its 5-in-1 mode capability (pH/Salinity/EC/TDS/Temp) and the hold data function for easy recording.

3. WHAT'S IN THE BOX

- 1 x YINMIK YK-5 Water Quality Tester
- 6 x pH Buffer Powder (for calibration)
- 3 x LR44 Batteries (pre-installed)
- 1 x User Guide (this manual)

4. SETUP

4.1 Initial Inspection

Upon receiving your YINMIK YK-5 tester, carefully inspect the packaging and the device for any signs of damage. Ensure all components listed in "What's in the Box" are present.

4.2 Battery Installation

The YK-5 meter comes with 3 LR44 batteries pre-installed. If replacement is needed, open the battery compartment located at the top of the meter, insert new batteries with correct polarity, and securely close the compartment.

5. OPERATING INSTRUCTIONS

5.1 General Operation

- **Power On/Off:** Press the "ON/OFF" button to turn the meter on or off.
- **Mode Selection:** Press the "MODE/CAL" button to cycle through pH, EC, TDS, and Salinity modes. The current mode will be displayed on the screen.
- **Hold/Temperature:** Press the "HOLD/TEMP" button to freeze the current reading on the display. Long press for 5 seconds to switch between Celsius (°C) and Fahrenheit (°F) temperature units.

pH and Salinity Tester for Saltwater Pool

Optimal Range

**pH: 7.2-7.8pH ;
Salt: 2700-3200ppm**

Check the pH level and salinity of pool to keep it balanced and clear

Figure 3: Testing pH and Salinity in a saltwater pool. The image shows the YK-5 meter being used to test water in a glass and a bathtub, illustrating its application for pool water quality checks.

5.2 Measurement Procedure

1. Remove the protective cap from the probe.
2. Clean the probe with purified water and gently dry it with a paper towel.
3. Immerse the electrode into the solution to be tested. Ensure the solution level is above the immersion line.
4. Gently stir the solution and wait for the reading to stabilize.
5. Press the "HOLD/TEMP" button to lock the reading if needed.
6. After use, clean the electrode with purified water, turn off the meter, and replace the protective cap.



Figure 4: Step-by-step guide for using the YK-5 meter. This image illustrates removing the cap, cleaning the probe, immersing it for reading, using the hold function, and cleaning/storing the probe after use.

6. CALIBRATION

Regular calibration ensures the accuracy of your YINMIK YK-5 meter. The meter supports both pH and EC/TDS/Salinity calibration.

6.1 pH Calibration

The YK-5 meter supports 3-point pH calibration (pH 4.00, pH 7.00, pH 10.01). Use the provided pH buffer powders to prepare the calibration solutions.

1. Prepare 250ml of purified water for each buffer solution. Dissolve one packet of pH 7.00 buffer powder into 250ml of purified water. Repeat for pH 4.00 and pH 10.01.
2. Turn on the meter and select pH mode.
3. Clean the probe with purified water and dry it.
4. Immerse the probe into the pH 7.00 buffer solution. Gently shake and wait for the reading to stabilize.
5. Long press the "MODE/CAL" button for 5 seconds until "CAL" flashes. The meter will automatically recognize the solution and calibrate. Once "7.00" flashes three times, the calibration for pH 7.00 is complete.
6. Clean the probe with purified water and dry it.
7. Repeat steps 4 and 5 for pH 4.00 and pH 10.01 buffer solutions.

Your browser does not support the video tag.

Video 1: pH Meter Calibration Guide. This video demonstrates the step-by-step process for calibrating the pH function of the meter using buffer solutions.

6.2 TDS/EC/Salt Calibration

The TDS, EC, and Salinity functions are factory-calibrated. For most uses, direct use is possible. If recalibration is necessary, use a 1413 $\mu\text{S}/\text{cm}$ EC standard solution.

1. Turn on the meter and switch to EC mode ($\mu\text{S}/\text{cm}$).
2. Clean the probe with purified water and dry it.
3. Immerse the probe into the 1413 $\mu\text{S}/\text{cm}$ EC standard solution. Gently shake and wait for the reading to stabilize.
4. If the displayed value is more than 1413, press the "MODE/CAL" button to reduce the value. If the value is less than 1413, press the "HOLD/TEMP" button to increase the value. Adjust until the reading is 1413.
5. Once "1413" flashes three times, the calibration is complete.
6. Clean the probe with purified water and dry it.

Your browser does not support the video tag.

Video 2: How to Calibrate TDS/EC Salt Meter. This video provides instructions on calibrating the TDS, EC, and Salinity functions of the meter using a standard solution.

7. MAINTENANCE

7.1 Probe Cleaning

Always rinse the electrode with purified water after each use to prevent contamination and ensure accurate readings. Gently wipe the probe with a soft cloth or paper towel.

7.2 Probe Storage

The protective cap contains a sponge. To maintain the probe's longevity and accuracy, keep this sponge moist by adding a few drops of pH storage solution (KCL solution) to it. If the meter is not used for a long time, soak the probe in pH storage solution for about 30 minutes before use and recalibrate.

Stable and Consistent Readings

The upgraded probe adds a protective sponge soaked in KCL solution and an anti-jamming chip to make the reading more stable; Extend tester life



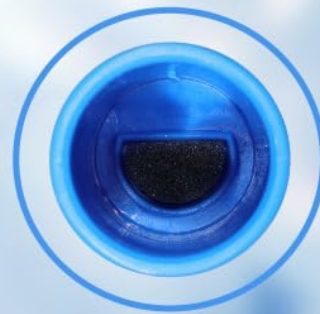
Probe Details



High Sensitive Probe



Added Anti-Jamming Chip



Protective Sponge

Figure 5: Probe details and maintenance. This image shows the high-sensitive probe, anti-jamming chip, and the protective sponge within the cap, emphasizing the importance of keeping the sponge moist with KCL solution.

7.3 Battery Replacement

When the display becomes dim or the meter does not respond, it's time to replace the batteries. The YK-5 uses 3 LR44 button cell batteries. Ensure correct polarity when inserting new batteries.

8. TROUBLESHOOTING

Problem	Possible Cause	Solution
Inaccurate readings	Uncalibrated meter, dirty probe, expired buffer solutions, dry probe.	Calibrate the meter, clean the probe thoroughly, use fresh buffer solutions, ensure probe sponge is moist.

Problem	Possible Cause	Solution
Display is dim or blank	Low battery or dead batteries.	Replace the LR44 batteries.
Reading fluctuates excessively	Air bubbles on the probe, insufficient immersion, contaminated solution.	Gently stir to remove bubbles, ensure probe is fully immersed, use clean samples.
Cannot calibrate	Incorrect calibration solution, damaged probe.	Verify correct buffer solutions are used, ensure probe is clean and undamaged. Consider replacing the probe if issues persist.

9. SPECIFICATIONS

- **Model:** YK-5
- **Measurement Range:**
 - pH: 0.00 - 14.00 pH
 - EC: 0 - 9990 μ S/cm; 10.1 - 200.0 mS/cm
 - TDS: 0 - 9990 ppm
 - Salinity: 0.00 - 25.00% (0.00-9990ppm for pool, 0.00-200.0ppt for seawater)
 - Temperature: 0.1 - 60.0°C (32.0 - 140.0°F)
- **Accuracy:**
 - pH: \pm 0.05 pH
 - EC/TDS/Salinity: \pm 2% F.S.
 - Temperature: \pm 0.5°C
- **Automatic Temperature Compensation (ATC):** 0-60°C
- **Power Supply:** 3 x 1.5V LR44 Button Cell Batteries
- **Dimensions:** 8.35 x 3.07 x 2.01 inches
- **Weight:** 7.05 ounces

10. WARRANTY AND SUPPORT

YINMIK products are designed for reliability and performance. For warranty information, technical support, or any inquiries regarding your YK-5 meter, please refer to the contact information provided on the product packaging or visit the official YINMIK website. Keep your purchase receipt as proof of purchase for warranty claims.

