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› YINMIK 4-in-1 EC pH Meter for Hydroponics and pH Decreaser User Manual

## YINMIK B0G3GSLG55

# YINMIK 4-in-1 EC pH Meter for Hydroponics and pH Decreaser User Manual

Model: B0G3GSLG55

## PRODUCT OVERVIEW

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The YINMIK 4-in-1 EC pH Meter is designed for continuous monitoring of pH, Electrical Conductivity (EC), Total Dissolved Solids (TDS) in parts per million (PPM), and temperature in hydroponic nutrient solutions. This kit also includes YINMIK pH Down liquid for adjusting the pH of your nutrient solution to optimal levels for plant growth.

# Simultaneous display without switching

One Click to Get All Reading



Figure 1: The YINMIK 4-in-1 EC pH Meter showing simultaneous display of pH, EC, and temperature readings.

# pH EC Meter for Hydroponic

Continuously monitor pH, EC and temperature values of hydroponic nutrient

**Ideal range: 800-2400 $\mu$ S/cm**

**5.5-6.8pH 65.0-80.0 $^{\circ}$ F**



Figure 2: The YINMIK pH EC Meter being used to monitor hydroponic nutrient solution, indicating ideal ranges.

## PACKAGE CONTENTS

Verify that all items listed below are present in your package:

- 1 x YINMIK 4-in-1 pH Meter
- 1 x 50ml pH 4.00 Calibration Solution
- 1 x 50ml pH 7.00 Calibration Solution
- 1 x 50ml 1413  $\mu$ S/cm Conductivity Calibration Solution
- 1 x 250ml YINMIK pH Down Liquid
- 1 x 30ml Measuring Cup
- 2 x Droppers
- 1 x Cleaning Pad
- 80 x pH Test Strips
- 1 x Instruction Manual (this document)



Figure 3: YINMIK 4-in-1 EC pH Meter and included calibration solutions.

# What You Get

- 250ml pH decriaser
- 2\* droppers & 1\* 30ml cup
- 80pcs pH test strips
- A cleaning cloth
- Instruction



Figure 4: YINMIK pH Down liquid and accessories included in the kit.

## SETUP AND CALIBRATION

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### Initial Preparation

Before first use, ensure the meter's electrode is clean. If the electrode appears dry, soak it in distilled water for approximately 30 minutes to rehydrate it.

### pH Calibration

1. Prepare pH 4.00 and pH 7.00 calibration solutions. Ensure they are at room temperature.
2. Turn on the meter. Press the "pH CAL" button.
3. Immerse the electrode into the pH 7.00 solution. Wait for the reading to stabilize, then confirm calibration as per the meter's display instructions.
4. Rinse the electrode with distilled water.
5. Immerse the electrode into the pH 4.00 solution. Wait for the reading to stabilize, then confirm calibration.
6. For higher pH measurements, an additional pH 10.00 calibration point may be available on the meter. Consult the meter's specific display prompts for multi-point calibration.

## EC/TDS Calibration

1. Prepare the 1413  $\mu\text{S}/\text{cm}$  conductivity calibration solution.
2. Turn on the meter. Press the "EC CAL" button.
3. Immerse the electrode into the 1413  $\mu\text{S}/\text{cm}$  solution. Wait for the reading to stabilize, then confirm calibration as per the meter's display instructions.
4. Rinse the electrode with distilled water after calibration.

## OPERATING INSTRUCTIONS

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### Measuring pH, EC, and Temperature

1. Ensure the meter is properly calibrated.
2. Turn on the meter.
3. Immerse the electrode into the solution to be tested. Ensure the electrode is fully submerged.
4. Wait for the readings (pH, EC/PPM, Temperature) to stabilize on the display.
5. Press the "MODE" button to switch between EC and PPM display modes if applicable.
6. Press the "TEMP" button to switch between Celsius and Fahrenheit temperature units if applicable.
7. Record the readings.
8. Rinse the electrode with distilled water after each measurement.

### Adjusting pH with YINMIK pH Down

YINMIK pH Down is formulated to safely lower the pH of hydroponic nutrient solutions. It features an all-natural formula, is designed not to damage pipes, and has no odor.

1. **Step 1: Check pH:** Use the YINMIK pH meter or pH test strips to determine the current pH of your nutrient solution.
2. **Step 2: Add pH Down:** Add 3-5 drops of YINMIK pH Down solution per gallon of nutrient solution. (A general recommendation is 1 ml of pH adjuster per gallon of nutrient solution.)
3. **Step 3: Mix and Wait:** Mix the solution well and wait 2-3 minutes to allow the pH to stabilize. Recheck the pH value.
4. **Step 4: Repeat:** Repeat steps 2 and 3 until your desired pH level is achieved.

# Easy to Use



Figure 5: Step-by-step guide for adjusting pH using YINMIK pH Down.

## Safety Information for pH Down Liquid:

- Keep out of reach of children.
- Avoid contact with skin or eyes. In case of contact, rinse thoroughly with water.
- Wear protective gloves and eyewear when handling.
- Do not ingest. If swallowed, seek medical attention immediately.

# High-quality Bottle for pH Down



Made of thickened HDPE material, durable and corrosion-resistant,

Double-layer seal to prevent leakage.

Figure 6: YINMIK pH Down bottle, highlighting its durable HDPE material and double-layer seal for safe storage.

## MAINTENANCE

- **Electrode Cleaning:** Always rinse the electrode with distilled water before and after each use. For stubborn residues, soak the electrode in a specialized pH electrode cleaning solution for 15-30 minutes, then rinse thoroughly with distilled water.
- **Storage:** Store the pH meter with the electrode cap filled with a storage solution (or pH 7.00 buffer solution) to prevent the electrode from drying out. Do not store the electrode in distilled water, as this can deplete the reference electrolyte.
- **Calibration:** Recalibrate the meter regularly, especially if readings become inconsistent or after prolonged storage. Frequent use may require weekly or bi-weekly calibration to maintain accuracy.
- **Battery Replacement:** If the display dims, flickers, or the meter becomes unresponsive, replace the batteries according to the instructions provided with the device. Ensure correct polarity during installation.

## TROUBLESHOOTING

- **Inaccurate Readings:**

- Ensure the meter is properly calibrated. Recalibrate if necessary.
  - Check if the electrode is clean. Clean it as described in the Maintenance section.
  - Verify the electrode is fully submerged in the solution.
  - Ensure the sample temperature is within the meter's operating range.
- **Slow Response Time:**
    - The electrode might be dry or dirty. Clean and rehydrate the electrode.
    - The electrode might be nearing the end of its lifespan and may require replacement.
- **Meter Not Turning On:**
    - Check battery levels and replace if necessary.
    - Ensure batteries are inserted with correct polarity.

## SPECIFICATIONS

Parameter	Value
Ideal pH Range for Hydroponics	5.5 - 6.8 pH
Ideal EC Range for Hydroponics	800 - 2400 $\mu\text{S}/\text{cm}$
Ideal Temperature Range for Hydroponics	65.0 - 80.0°F (18.3 - 26.7°C)
pH Down Liquid Volume	250ml (8.45 fl oz)
Calibration Solutions Included	pH 4.00, pH 7.00, 1413 $\mu\text{S}/\text{cm}$