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› GIDIGI GX-pET04BEU 4-in-1 Digital pH, EC, TDS, Temperature Meter User Manual

GIDIGI GX-pET04BEU

GIDIGI GX-pET04BEU 4-in-1 Digital pH, EC, TDS, Temperature Meter User Manual

Model: GX-pET04BEU | Brand: GIDIGI

INTRODUCTION

This manual provides detailed instructions for the operation, calibration, and maintenance of your GIDIGI GX-pET04BEU 4-in-1 Digital pH, EC, TDS, and Temperature Meter. This versatile device is designed for accurate measurement of water quality parameters in various applications, including hydroponics, aquariums, pools, drinking water, and brewing. Please read this manual thoroughly before use to ensure proper function and longevity of the device.

PRODUCT FEATURES

- **Simultaneous Display:** The meter's screen simultaneously displays pH, EC, and temperature, eliminating the need to switch modes. It also shows PPM for hydroponic solutions, aiding in nutrient management.
- **Accurate Measurement with ATC:** Features automatic temperature compensation (ATC) from 0 to 50 °C (32 to 122 °F) for precise readings, protecting sensitive plants and optimizing growth.
- **4-in-1 Multifunctionality:** Measures pH, TDS, EC, and temperature. Wide measurement ranges include pH (0.1-14.0), EC (0-9990 µS/cm, 10.01-19.99 mS/cm), TDS (0-9990 ppm), and temperature (0.0-60.0 °C, 32.0-140.0 °F).
- **High-Sensitivity Probe:** Equipped with a high-sensitivity probe offering 0.1 resolution for pH. The sponge cap helps keep the electrode moist, extending its lifespan.
- **User-Friendly Design:** Features an easy-to-read green backlit display for quick readings in low-light conditions. Automatic shut-off after five minutes of inactivity conserves battery life.

PACKAGE CONTENTS

The package typically includes:

- GIDIGI GX-pET04BEU 4-in-1 Digital Meter
- pH Calibration Solutions (pH 4.00, pH 7.00, pH 10.01)
- EC Calibration Solution (1413 µS/cm)

- User Manual
- Storage Pouch (may vary by package)

¿Por qué elegir el medidor 4 en 1 de GIDIGI?

— Especializado para siembra hidropónica —



1 Visualización simultánea
pH & Temperatura siempre en pantalla

Profesional y práctico con líquido
de calibración de pH y CE

2



3 Electrodo reemplazable,
larga vida útil

Función de memoria, El modo de
visualización de inicio es el
último modo utilizado.

4



Image: GIDIGI 4-in-1 Digital Meter shown with included pH 4.00, pH 7.00, and pH 10.01 calibration solutions.

SPECIFICATIONS

Model Number	GX-pET04BEU
pH Range	0.1 - 14.0 pH
EC Range	0 - 9990 $\mu\text{S}/\text{cm}$, 10.01 - 19.99 mS/cm
TDS Range	0 - 9990 ppm
Temperature Range	0.0 - 60.0 $^{\circ}\text{C}$ (32.0 - 140.0 $^{\circ}\text{F}$)
Automatic Temperature Compensation (ATC)	0 - 50 $^{\circ}\text{C}$ (32 - 122 $^{\circ}\text{F}$)

Automatic Shut-off	After 5 minutes of inactivity
Display	Green Backlit LCD
Package Dimensions	25.4 x 14.6 x 5.6 cm
Weight	500 g
Country of Origin	China



2400	18
μS	ppm
5.9 pH	6.9 pH
22.0°C	22.0°C
ppm&pH &Temperature	EC&pH &Temperature

pH	0.0-14.0
TDS	0-9990ppm
EC	0-9990μS/cm 10.01-19.99mS/cm
Temperature	0-60°C
Auto save	5 minutes
Hold function	Yes
Backlights	Green Backlights

Image: Close-up of the meter's extended temperature electrode and professional electrode stabilization chip, highlighting its precision features.

SETUP AND INITIAL USE

- Unpack the Device:** Carefully remove the GIDIGI meter and all accessories from the packaging.
- Inspect the Probe:** Ensure the probe is clean and free from damage. The sponge cap should be moist; if dry, add a few drops of electrode storage solution or distilled water.
- Power On:** Press the power button to turn on the device.
- Initial Calibration:** For accurate readings, it is crucial to calibrate the meter before first use and regularly thereafter. Refer to the "Calibration" section for detailed instructions.



Image: A hand holding the GIDIGI 4-in-1 Digital Meter, displaying simultaneous readings for pH, PPM, and temperature on its green backlit screen.

OPERATING INSTRUCTIONS

General Measurement

1. **Prepare Sample:** Obtain a sample of the water or solution you wish to test.
2. **Immerse Probe:** Remove the protective cap and immerse the electrode into the sample solution, ensuring the sensor is fully submerged.
3. **Stabilize Reading:** Gently stir the meter to remove air bubbles and wait for the reading on the display to stabilize.
4. **Record Measurement:** Once stable, record the pH, EC, TDS, and temperature values displayed.
5. **Clean Probe:** After each use, rinse the electrode with distilled water and replace the protective cap, ensuring the sponge remains moist.

Pantalla simultánea 4 en 1 pH TDS EC Temperatura Tester

— Obtenga todos los datos en un clic —



Image: The GIDIGI 4-in-1 Digital Meter in use, demonstrating its application for testing drinking water, tap water, and garden water.

Hydroponics Use

The GIDIGI meter is ideal for monitoring hydroponic nutrient solutions. Regular checks help maintain optimal conditions for plant growth.

- Check pH and PPM of the hydroponic base water.
- Monitor the nutrient solution's pH and EC/TDS to ensure plants receive adequate nutrients.
- Measure the temperature of the hydroponic water for root health.

Medidor de ph ppm para agua



Agua potable



Agua del grifo



Agua de jardín



Image: The GIDIGI 4-in-1 Digital Meter measuring parameters in a hydroponic system, showing its application for nutrient solution and root temperature.

Pool Water Testing

Maintain healthy pool water by regularly checking pH, PPM, and temperature.

- **Ideal pH:** 7.2-7.8 pH
- **Saltwater Pools PPM:** 2000-3400 ppm
- **Chlorine or Bromine Pools PPM:** 1000-2000 ppm
- **Recommended Temperature:** 25.5-29.0 °C

pH EC temperatura Testerfor hidropon í a

—para el cultivo Nutrientes



Image: The GIDIGI 4-in-1 Digital Meter being used to measure pH, PPM, and temperature in a swimming pool, providing direct readings without color comparison.

Calibration

Regular calibration ensures the accuracy of your meter. It is recommended to calibrate the pH once a week for high precision (e.g., hydroponics) or once a month for general use (e.g., pools). EC calibration is generally stable from the factory but can be re-calibrated if needed.

pH Calibration (4.00, 7.00, 10.01 pH)

1. **Prepare Solutions:** Pour small amounts of pH 4.00, pH 7.00, and pH 10.01 buffer solutions into separate clean beakers.
2. **Clean Probe:** Rinse the electrode with distilled water and gently blot dry.
3. **Calibrate pH 7.00:**
 - Immerse the electrode into the pH 7.00 buffer solution.
 - Press and hold the "CAL" button (often combined with "TEMP" or "pH CAL") for 5 seconds until "CAL" appears

on the screen.

- The display will flash "7.00" three times, indicating successful calibration.

4. Calibrate pH 4.00 (or 10.01):

- Rinse the electrode with distilled water.
- Immerse the electrode into the pH 4.00 buffer solution.
- Press and hold the "CAL" button for 5 seconds.
- The display will flash "4.00" three times.
- Repeat for pH 10.01 solution if needed.

5. **Finish:** Rinse the electrode with distilled water and replace the protective cap.



Image: Step-by-step diagram illustrating the pH calibration process using buffer solutions, including instructions for 4.00, 7.00, and 10.01 pH points.

EC Calibration (1413 μ S/cm)

The EC sensor is typically factory-calibrated. If recalibration is required:

1. **Prepare Solution:** Pour a small amount of 1413 μ S/cm EC calibration solution into a clean beaker.
2. **Clean Probe:** Rinse the electrode with distilled water and gently blot dry.
3. **Calibrate:**
 - Immerse the electrode into the 1413 μ S/cm solution.
 - Press and hold the "EC CAL" button for 5 seconds until a value flashes on the screen.
 - Use the up/down arrows (if available, or "MODE" button to cycle) to adjust the displayed value to 1413.
 - The value will flash three times, indicating successful calibration.
4. **Finish:** Rinse the electrode with distilled water and replace the protective cap.

Note: Calibration for 5000 μ S/cm and 12.88 mS/cm follows similar steps.



Image: Diagram illustrating the EC calibration process, including steps for using 1413 µS/cm solution and cleaning the electrode.

MAINTENANCE

- **Electrode Cleaning:** Regularly clean the EC electrode probe with a cotton swab to remove any buildup.
- **Electrode Storage:** Always keep the electrode moist by ensuring the sponge in the protective cap is saturated with electrode storage solution. If storage solution is unavailable, add a few drops of distilled water. Never store the electrode dry.
- **Battery Replacement:** If the display dims or the meter behaves erratically, replace the batteries. Refer to the device's battery compartment for type and replacement instructions.
- **Probe Replacement:** Compatible replacement probes are available for purchase from the GIDIGI store.

TROUBLESHOOTING

Problem	Possible Cause	Solution
Inaccurate Readings	Uncalibrated meter, dirty electrode, dry electrode, expired calibration solutions.	Calibrate the meter according to instructions. Clean the electrode. Ensure the electrode is stored moist. Use fresh calibration solutions.
Display is dim or blank	Low battery, device off.	Replace batteries. Press the power button to turn on.
Readings fluctuate excessively	Air bubbles on electrode, unstable sample temperature, damaged electrode.	Gently stir the sample. Allow sample to reach a stable temperature. If problem persists, the electrode may need replacement.
Cannot calibrate	Incorrect calibration solution, dirty electrode, faulty electrode.	Ensure correct and fresh calibration solutions are used. Clean the electrode. If still unable to calibrate, the electrode may be faulty and require replacement.

WARRANTY AND SUPPORT

GIDIGI is committed to customer satisfaction. If you encounter any issues with your GX-pET04BEU meter, please contact our customer support team. We are available 24/7 and aim to respond to all inquiries within 12 hours.

For compatible accessories such as pH calibration powder, pH calibration solution, EC calibration solution, and new replacement probes, please visit the official GIDIGI store.

Contact Information: Refer to the product packaging or the official GIDIGI website for the most current support contact details.