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GIDIGI GX-F7EU

GIDIGI GX-F7EU 7-in-1 Digital Water Quality Tester User Manual

Model: GX-F7EU | Brand: GIDIGI

1. INTRODUCTION

The GIDIGI GX-F7EU is a versatile 7-in-1 digital water quality tester designed for accurate measurement of key water parameters. This device provides readings for pH, Free Available Chlorine (FAC), Salinity (Sodium Chloride), ORP (Oxidation-Reduction Potential), Temperature, TDS (Total Dissolved Solids), and EC (Electrical Conductivity). It is an essential tool for maintaining optimal water quality in various applications, including swimming pools, spas, aquariums, hydroponic systems, and drinking water.

Testeur d'eau de piscine professionnel

Testeur de pH et de chlore résiduel GIDIGI 7 en 1 :
Préservez la santé de votre piscine

Eau de piscine idéale :

- FAC: 1-3 mg/L
- ORP: 650 - 750mV
- pH: 7.2-7.6
- Sel: 2400-3600ppm
- Temp: 25.5-29.0°C



Image 1.1: GIDIGI GX-F7EU 7-in-1 Digital Water Quality Tester.

2. WHAT'S IN THE BOX

Upon unboxing, please ensure all components are present:

- 1 x GIDIGI GX-F7EU 7-in-1 Digital Water Quality Tester
- Calibration solutions (pH 4.00, pH 7.00, pH 10.01, ORP 222mV)
- User Manual (this document)

2026 Nouvelle version améliorée pH-mètre

Avec grand écran couleur,
piles AAA et
solution d'étalonnage du pH

- Il est fourni avec des solutions d'étalonnage pH et ORP de 4,00, 7,00 et 222 mV
- Vous n'avez pas besoin de consacrer du temps ni des efforts à la préparation des solutions ; elles sont prêtes à l'emploi dès leur sortie de l'emballage.



Image 2.1: The GIDIGI GX-F7EU tester with included pH and ORP calibration solutions.

3. KEY FEATURES

- **7-in-1 Measurement:** Measures pH, Free Available Chlorine (FAC), Salinity, ORP, Temperature, TDS, and EC.
- **Professional Chlorine Meter:** Essential for maintaining clean and hygienic chlorinated pools, protecting salt electrolyzers from corrosion.
- **Salinity Meter for Saltwater Pools:** Accurately controls sodium chloride levels, ideal for saltwater pool maintenance.
- **Precision Design:** IP67 waterproof rating, replaceable electrode, and automatic calibration for reliable accuracy.
- **User-Friendly Interface:** Features HD backlight, digital display, Automatic Temperature Compensation (ATC), and one-button temperature unit conversion.
- **Factory Pre-calibrated:** Each tester is pre-calibrated for immediate use. Calibration solutions are included for easy re-calibration.

Testeur de piscine multifonctionnel 7 en 1



Image 3.1: The GIDIGI GX-F7EU displaying its multi-functional measurement capabilities and ranges.

4. SETUP

4.1. Battery Installation

The device uses AAA batteries. To install or replace batteries, locate the battery compartment on the back of the device, open it, insert the batteries according to the polarity indicators, and close the compartment securely.

4.2. Initial Preparation

1. Remove the protective cap from the electrode at the bottom of the tester.
2. Rinse the electrode with distilled water before first use.

5. OPERATING INSTRUCTIONS

5.1. Power On/Off

Press the power button to turn the device on or off.

5.2. Mode Switching

The tester allows you to switch between different measurement functions (pH, EC, TDS, Salt, ORP, FAC, Temperature). Briefly press the **MODE/CAL** button to cycle through the measurement modes.



Image 5.1: Instructions for switching between pH, EC, TDS, Salt, ORP, and FAC modes.

5.3. Taking a Measurement

1. Select the desired measurement mode.
2. Immerse the electrode into the liquid to be tested. Ensure the electrode is fully submerged.
3. Gently stir the tester to remove any air bubbles.
4. Wait for the reading to stabilize on the display.
5. Press the **HOLD** button to freeze the reading on the screen for easier recording. Press again to release.
6. After measurement, rinse the electrode with distilled water and replace the protective cap.

5.4. Temperature Unit Conversion

Press the °C/°F button to switch between Celsius and Fahrenheit temperature units.

6. CALIBRATION

The GIDIGI GX-F7EU is factory pre-calibrated. However, re-calibration is recommended periodically or if readings appear inaccurate. Always calibrate pH 7.0 first, then pH 4.0 or pH 10.0. For ORP, calibrate with 222mV solution.

6.1. pH Calibration (pH 7.0)

1. Turn on the tester and switch to pH mode.
2. Immerse the electrode into the pH 7.00 calibration solution.
3. Press and hold the **MODE/CAL** button for 5 seconds until "CAL" appears on the screen, then release.
4. The screen will display "7.0" and blink. Wait for the blinking to stop, indicating successful calibration.

Étalonnage du pH 7,0

Note d'étalonnage : Étalonnez d'abord le point 7.0, puis le point 4.0 ou 10.0.

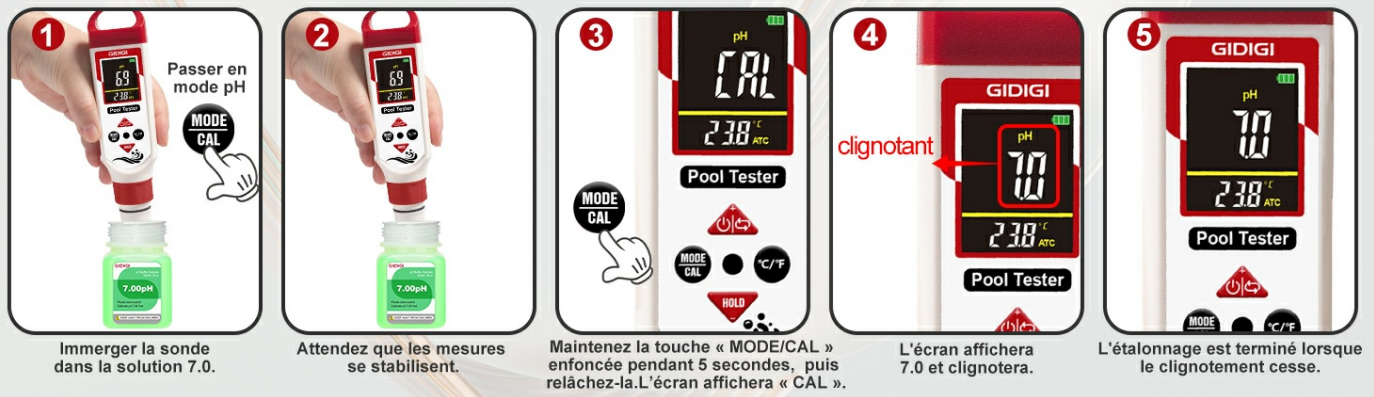


Image 6.1: pH 7.0 Calibration Procedure.

6.2. pH Calibration (pH 4.0 or pH 10.0)

1. After calibrating pH 7.0, rinse the electrode with distilled water.
2. Immerse the electrode into either the pH 4.00 or pH 10.01 calibration solution.
3. Press and hold the **MODE/CAL** button for 5 seconds until "CAL" appears, then release.
4. The screen will display "4.0" or "10.0" and blink. Wait for the blinking to stop.



Image 6.2: pH 10.0 Calibration Procedure (similar for pH 4.0).

6.3. ORP Calibration (222mV)

Special Attention: For ORP calibration, you may need to manually adjust the value quickly while it is blinking. The calibration will stop once the blinking ceases.

1. Turn on the tester and switch to ORP mode.
2. Immerse the electrode into the 222mV ORP calibration solution.
3. Press and hold the **MODE/CAL** button for 5 seconds until "CAL" appears, then release.
4. The screen will display "222" and blink. Adjust the value if necessary using the appropriate buttons (refer to device specific buttons for adjustment if available, otherwise wait for stabilization).
5. Wait for the blinking to stop, indicating successful calibration.

Étalonnage du ORP 222mV

Attention particulière: Veuillez augmenter ou diminuer la valeur manuellement et rapidement, en veillant à la régler pendant qu'elle clignote. L'étalonnage s'arrêtera une fois le clignotement terminé.



Image 6.3: ORP 222mV Calibration Procedure.

7. MAINTENANCE

7.1. Electrode Cleaning

After each use, rinse the electrode thoroughly with distilled water to prevent contamination and residue buildup. For stubborn deposits, use a soft brush and a mild cleaning solution specifically designed for pH electrodes, then rinse thoroughly.

7.2. Storage

Always replace the protective cap after use. Ensure the electrode remains moist by adding a few drops of storage solution or pH 7.00 buffer solution to the cap if storing for extended periods. Never store the electrode dry.

7.3. Waterproof Rating

The device has an IP67 waterproof rating, meaning it is protected from immersion in water up to 1 meter for 30 minutes. However, it is not designed for continuous submersion. Ensure the battery compartment is securely closed to maintain its waterproof integrity.

8. APPLICATIONS

The GIDIGI GX-F7EU tester is suitable for a wide range of water quality monitoring needs:

- **Swimming Pools & Spas:** Monitor pH, chlorine, and salinity for optimal water chemistry and safety.
- **Drinking Water:** Check pH and TDS levels to ensure water quality.
- **Hydroponics:** Measure pH and EC to ensure nutrient solutions are balanced for plant growth.
- **Aquariums & Koi Ponds:** Maintain stable pH, salinity, and ORP levels crucial for aquatic life.

Large gamme d'applications



FAC+Sel+pH



TDS+pH+ORP



pH+Sel+EC



Sel+pH+TDS



ORP+FAC+TEMP.



EC+pH+Sel

Image 8.1: Diverse applications of the GIDIGI GX-F7EU water quality tester.

Culture hydroponique Peut servir de mesureur pH conductivité

Surveille la concentration de la solution nutritive
Veillez à ce que les plantes absorbent suffisamment de nutriments
pour une croissance saine.



Trop bas

Apports nutritifs insuffisants,
croissance lente



Trop haut

Les racines ont du mal à absorber
l'eau, ce qui freine la croissance
de la plante



Image 8.2: Using the tester for hydroponic nutrient solution monitoring.



Image 8.3: Guide for maintaining proper pH and chlorine levels in pool water.

9. SPECIFICATIONS

Parameter	Range	Resolution	Accuracy
pH	0.0 - 14.0 pH	0.01 pH	±0.05 pH
Free Available Chlorine (FAC)	0.0 - 4.0 mg/L	0.1 mg/L	±0.1 mg/L
Salinity (Salt)	0-999 ppm; 1000-9990 ppm; 10.1-100.0 ppt	1 ppm / 10 ppm / 0.1 ppt	±2% F.S.
ORP	-1200 mV to +1200 mV	1 mV	±2 mV
Temperature	0.1 - 60.0 °C (32.1 - 140.0 °F)	0.1 °C / 0.1 °F	±0.5 °C
TDS	0-999 ppm; 1000-9990 ppm; 10.1-100.0 ppt	1 ppm / 10 ppm / 0.1 ppt	±2% F.S.
EC (Conductivity)	0.00-19.99 mS/cm; 20.0-200.0 mS/cm	0.01 mS/cm / 0.1 mS/cm	±2% F.S.

- **Automatic Temperature Compensation (ATC):** Yes
- **Waterproof Rating:** IP67
- **Power Supply:** AAA Batteries (not specified, but implied by A+ content)
- **Model Number:** GX-F7EU

10. TROUBLESHOOTING

10.1. Inaccurate Readings

- **Issue:** Readings are inconsistent or significantly different from expected values.
- **Solution:** Re-calibrate the tester according to the instructions in Section 6. Ensure the electrode is clean and properly stored. Check if the calibration solutions are expired.

10.2. Display Not Working

- **Issue:** The screen is blank or shows garbled characters.
- **Solution:** Check the batteries. Replace them if they are low or depleted. Ensure batteries are inserted with correct polarity.

10.3. Slow Response Time

- **Issue:** The tester takes a long time to stabilize readings.
- **Solution:** Clean the electrode thoroughly. Ensure the electrode is not dry; if it has been stored dry, rehydrate it in storage solution or pH 7.00 buffer for several hours.

11. SUPPORT

If you encounter any problems during the use of your GIDIGI GX-F7EU water quality tester, please contact GIDIGI customer service for assistance. Refer to the product packaging or the official GIDIGI website for contact information. We are committed to providing prompt support.

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