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GIDIGI B0DM85218Q

GIDIGI Digital Dissolved Oxygen Meter & 4-in-1 Water Quality Tester User Manual

Model: B0DM85218Q

INTRODUCTION

This manual provides detailed instructions for the operation, maintenance, and troubleshooting of your GIDIGI Digital Dissolved Oxygen Meter and 4-in-1 Water Quality Tester. Please read this manual thoroughly before using the device to ensure accurate measurements and prolong its lifespan.

PRODUCT OVERVIEW

Key Features:

- **Multi-Parameter Measurement:** Measures pH (0.01-14.00), EC (conductivity), TDS (0-9990ppm), and Temperature (0.0-50.0°C / 32.0-122.0°F).
- **Dissolved Oxygen (DO) Measurement:** Two modes: mg/L (1mg/L=1ppm) and % saturation.
- **Extended DO Probe Cable:** Equipped with a 3-meter (9.84ft) electrode cable for deep water testing.
- **Automatic Temperature Compensation (ATC):** Ensures stable and accurate readings across varying temperatures.
- **Bluetooth Connectivity:** Connects to a smartphone app for salinity and altitude compensation, data storage, management, and sharing.
- **Wide Application:** Suitable for hydroponics, aquariums, fish tanks, drinking water, swimming pools, brewing, industrial systems, wastewater treatment, and environmental monitoring.

Components:

DO Meter Kit with Complete Accessories



Image: GIDIGI DO Meter Kit with Complete Accessories. This image displays the main dissolved oxygen meter unit, the DO probe with its long cable, and various accessories such as protective caps and calibration solutions.



Image: Professional Dissolved Oxygen Meter in use. The image shows the DO meter displaying readings in both mg/L and percentage modes, with the probe submerged in an aquarium.

SETUP

1. **Unpacking:** Carefully remove all components from the packaging. Verify that all items listed in the product overview are present.
2. **Battery Installation:** Open the battery compartment (if applicable, usually at the back or top of the meter) and insert the required batteries, observing polarity.
3. **DO Probe Preparation:**
 - Unscrew the protective cap from the DO probe.
 - Fill the probe membrane cap with the provided electrolyte solution. Ensure no air bubbles are trapped.
 - Carefully screw the membrane cap back onto the probe, ensuring a tight seal.
 - Connect the DO probe cable to the main meter unit securely.
4. **Initial Power On:** Press the **ON/OFF** button to power on the device. The display should illuminate.
5. **App Connection (Optional):**

- Download the GIDIGI app from your device's app store.
- Enable Bluetooth on your smartphone.
- Open the GIDIGI app and follow the on-screen instructions to pair with your meter.

Bluetooth Dissolved Oxygen Tester

- Automatic temperature compensation
- Manual salinity and altitude compensation



Image: Bluetooth Dissolved Oxygen Tester with App. This image illustrates the meter connected via Bluetooth to a smartphone app, showing options for salinity and altitude compensation settings.

OPERATING INSTRUCTIONS

A. Dissolved Oxygen (DO) Measurement:

1. **Power On:** Press the **ON/OFF** button.
2. **Select Mode:** Press the **MODE/CAL** button to cycle between mg/L and % saturation modes for DO.
3. **Submerge Probe:** Carefully immerse the DO probe into the water sample, ensuring the membrane is fully submerged and free of air bubbles. Stir gently to ensure proper water flow around the probe.
4. **Read Measurement:** Allow the reading to stabilize on the display. The meter will automatically compensate for temperature.
5. **Hold Reading:** Press the **HOLD/TEMP** button to freeze the current reading on the display. Press again to release.

6. **Temperature Display:** While in DO mode, press and hold the **HOLD/TEMP** button to switch between Celsius (°C) and Fahrenheit (°F) temperature units.
7. **Salinity/Altitude Compensation (via App):** If measuring in saline water or at high altitudes, connect to the app and input the appropriate compensation values for more accurate results.



Image: Dissolved Oxygen Meter Modes. This image shows the meter displaying dissolved oxygen readings in both mg/L and percentage saturation modes, indicating its versatility.

B. pH, EC, TDS, and Temperature Measurement:

1. **Power On:** Press the **ON/OFF** button.
2. **Select Mode:** Press the **MODE/CAL** button repeatedly until the desired measurement mode (pH, EC, TDS) is displayed. Temperature is typically shown concurrently.
3. **Submerge Probe:** Immerse the electrode tip into the water sample. Ensure the sensor is fully covered.
4. **Read Measurement:** Wait for the reading to stabilize. The meter will automatically apply temperature compensation.
5. **Hold Reading:** Press the **HOLD/TEMP** button to freeze the current reading. Press again to release.
6. **Temperature Display:** Press and hold the **HOLD/TEMP** button to switch between Celsius (°C) and

Fahrenheit (°F) temperature units.

pH EC Meter for Water

ideal range EC: 1.2-2.0 pH: 5.5-6.0

Help detect and adjust in time
Effectively ensure the growth of plants
in a suitable environment



Image: pH EC Meter for Water. This image shows the 4-in-1 meter displaying EC/pH/TDS/TEMP readings, used in a hydroponic environment to monitor nutrient solution.

A Must-Have TDS Meter for Growers

Period ideal ppm level

flowering stage: 1,000-1,100ppm

vegetative phase: 800-900ppm

cloning phase: 500-600ppm



Image: TDS Meter for Growers. The image highlights the TDS measurement capability, showing ideal ppm levels for different plant growth stages (flowering, vegetative, cloning).

ppm pH Water for Meter



Image: ppm pH Water Meter Applications. This image demonstrates the meter's use for testing various water sources including tap water, garden water, well water, and filtered water, in addition to nutrient solutions.

CALIBRATION

Regular calibration ensures the accuracy of your meter. Refer to the specific instructions provided with your calibration solutions for best results.

A. DO Meter Calibration:

1. Air Calibration:

- Ensure the DO probe is clean and dry.
- Place the probe in a humid air environment (e.g., in the calibration bottle with a few drops of water, but not submerged).
- Power on the meter and select DO mode.
- Press and hold the **MODE/CAL** button until "CAL" appears on the display.
- The meter will automatically calibrate to the saturated oxygen level in the air. Wait for the calibration to complete and the display to return to measurement mode.

2. Zero Oxygen Calibration (Optional): For highly precise applications, a zero oxygen solution can be

used. Follow the specific instructions provided with your zero oxygen calibration solution.

B. pH Calibration:

1. **Prepare Solutions:** Use fresh pH 6.86, pH 4.00, and pH 9.18 (or pH 10.01) buffer solutions.
2. **Clean Electrode:** Rinse the electrode with distilled water and blot dry.
3. **Calibrate pH 6.86:**
 - Immerse the electrode into the pH 6.86 buffer solution.
 - Press and hold the **MODE/CAL** button until "CAL" appears, then release. The meter will recognize the buffer and calibrate.
 - Wait for the reading to stabilize and the meter to confirm calibration (e.g., "END" or a stable pH value).
4. **Calibrate pH 4.00:** Rinse the electrode, then immerse it into the pH 4.00 buffer solution. Repeat the calibration steps as for pH 6.86.
5. **Calibrate pH 9.18/10.01 (if needed):** Rinse the electrode, then immerse it into the pH 9.18 or pH 10.01 buffer solution. Repeat the calibration steps.

C. EC/TDS Calibration:

1. **Prepare Solution:** Use a standard EC calibration solution (e.g., 1413 $\mu\text{S}/\text{cm}$ or 12.88 mS/cm).
2. **Clean Electrode:** Rinse the electrode with distilled water and blot dry.
3. **Calibrate:**
 - Immerse the electrode into the EC calibration solution.
 - Press and hold the **MODE/CAL** button until "CAL" appears, then release. The meter will recognize the buffer and calibrate.
 - Wait for the reading to stabilize and the meter to confirm calibration.

MAINTENANCE

- **Electrode Cleaning:** Regularly rinse all electrodes with distilled or deionized water after each use to prevent contamination and buildup.
- **DO Probe Membrane:**
 - Inspect the membrane for damage or fouling. Replace if necessary.
 - Ensure the electrolyte solution in the membrane cap is fresh and free of bubbles. Replace the solution periodically (e.g., monthly or as needed).
- **Storage:**
 - Store the DO probe with its protective cap filled with a small amount of electrolyte solution or distilled water to keep the membrane moist. Do not store dry.
 - Store the pH/EC/TDS electrode with its protective cap, ideally with a few drops of storage solution or pH 4.00 buffer to prevent drying.
 - Store the meter in a cool, dry place, away from direct sunlight and extreme temperatures.
- **Battery Replacement:** Replace batteries when the low battery indicator appears on the display to ensure accurate readings.

TROUBLESHOOTING

Problem	Possible Cause	Solution
Meter does not power on.	Dead or incorrectly installed batteries.	Check battery polarity; replace batteries.
Inaccurate or unstable readings.	<ul style="list-style-type: none"> Probe not clean. Probe not properly calibrated. Damaged probe membrane (DO). Electrolyte solution depleted or contaminated (DO). Air bubbles on the probe. 	<ul style="list-style-type: none"> Clean the probe thoroughly. Perform calibration according to instructions. Replace the DO probe membrane. Refill or replace the DO electrolyte solution. Gently tap the probe to dislodge bubbles.
Bluetooth connection issues.	<ul style="list-style-type: none"> Bluetooth not enabled on phone. App not installed or updated. Meter too far from phone. 	<ul style="list-style-type: none"> Ensure Bluetooth is on. Install/update the GIDIGI app. Move meter closer to phone.
DO readings fluctuate excessively.	<ul style="list-style-type: none"> Insufficient stirring. Damaged DO membrane. Temperature fluctuations. 	<ul style="list-style-type: none"> Stir the sample gently but consistently. Inspect and replace DO membrane if damaged. Allow sample temperature to stabilize.

SPECIFICATIONS

Parameter	Range	Resolution	Accuracy
pH	0.01 - 14.00 pH	0.01 pH	±0.05 pH
EC	0 - 9990 µS/cm	1 µS/cm	±2% F.S.
TDS	0 - 9990 ppm	1 ppm	±2% F.S.
Dissolved Oxygen (mg/L)	0.00 - 20.00 mg/L	0.01 mg/L	±0.4 mg/L
Dissolved Oxygen (%)	0.0 - 300.0 %	0.1 %	±1.5 % F.S.
Temperature	0.0 - 50.0 °C (32.0 - 122.0 °F)	0.1 °C / 0.1 °F	±0.5 °C / ±1.0 °F
DO Probe Cable Length	3 meters (9.84 feet)		
Automatic Temperature Compensation (ATC)	Yes		

Parameter	Range	Resolution	Accuracy
Connectivity	Bluetooth (for app features)		

Note: Specifications are subject to change without prior notice.

WARRANTY AND SUPPORT

For warranty information, technical support, or service inquiries, please refer to the contact information provided with your product packaging or visit the official GIDIGI website. Keep your purchase receipt as proof of purchase for warranty claims.

Manufacturer: GIDIGI

Model Number: B0DM85218Q

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