MEXYBE A2

MEXYBE 4-in-1 TDS Meter Digital Water Tester User Manual

Model: A2

1. Product Overview

The MEXYBE 4-in-1 Digital Water Tester is designed to accurately measure Total Dissolved Solids (TDS), Electrical Conductivity (EC), and temperature in both Celsius and Fahrenheit. This device features a high-precision chip and a premium titanium alloy probe for reliable results. It is suitable for testing drinking water, RO/DI systems, aquariums, hydroponics, pools, and more.
Key features include:

- **4-in-1 Functionality:** Measures TDS, EC, Temperature (°C, °F).
- **Large Backlit LCD:** 25% larger display for easy reading.
- **Auto-Lock Function:** Simplifies usage by locking readings.
- **Factory Calibrated:** Ready for direct use.
- **Hold Function:** Freezes the reading on the display.
- **Auto-Off:** Powers off after 2 minutes of inactivity to conserve battery.
- **TDS Chart:** Convenient chart on the back of the tester and in the user guide for quick PPM value interpretation.

Image 1.1: The MEXYBE 4-in-1 TDS Meter displaying its four measurement modes: TDS (ppm), EC (µs/cm), Celsius (°C), and Fahrenheit (°F). Note that the device does not measure pH or water hardness.

2. Setup and Components

Before first use, ensure the batteries are correctly installed. The device comes with 2 LR44 batteries included and pre-installed.

2.1 Components

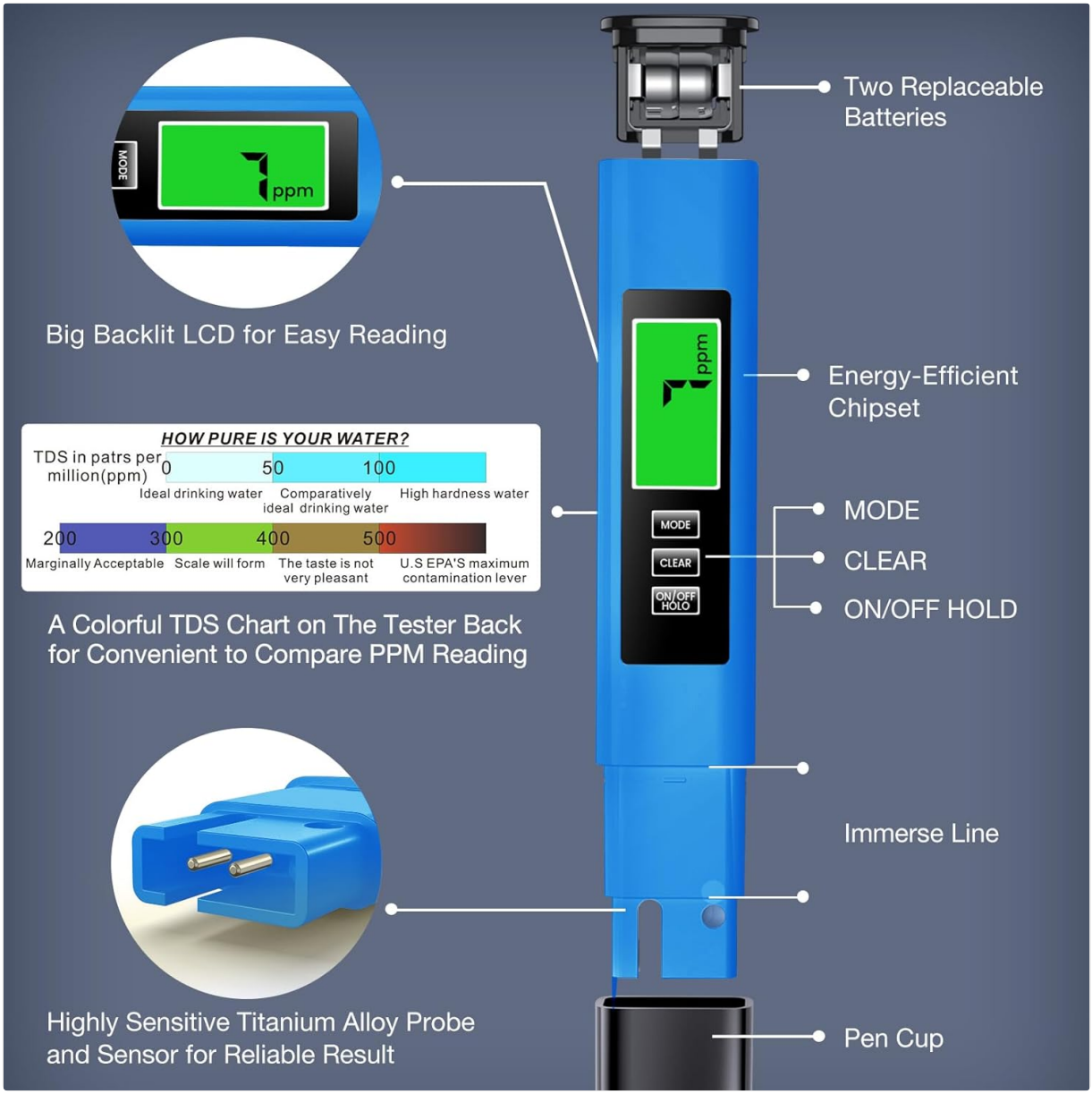

Image 2.1: Detailed diagram of the MEXYBE 4-in-1 TDS Meter, highlighting its key components: two replaceable batteries, energy-efficient chipset, large backlit LCD, MODE button, CLEAR button, ON/OFF HOLD button, immerse line, highly sensitive titanium alloy probe and sensor, and pen cup.

1. **Battery Compartment:** Located at the top, holds two LR44 batteries.
2. **Backlit LCD Display:** Shows measurement readings.
3. **MODE Button:** Switches between TDS, EC, and Temperature (°C/°F) display modes.
4. **CLEAR Button:** Clears the current reading.
5. **ON/OFF HOLD Button:** Powers the device on/off and activates the hold function.
6. **Immerse Line:** Indicates the maximum immersion depth for the probe.
7. **Titanium Alloy Probe:** High-precision sensor for accurate measurements.
8. **Pen Cup:** Protective cover for the probe.

2.2 Battery Installation

The device comes with batteries pre-installed. To replace batteries:

1. Gently slide open the battery compartment cover at the top of the device.
2. Remove the old LR44 batteries.
3. Insert two new LR44 batteries, ensuring correct polarity.

4. Close the battery compartment cover securely.

3. Operating Instructions

Follow these steps for accurate water quality testing:

1. **Prepare the Sample:** Pour the water to be tested into a clean container.
2. **Power On:** Press the **ON/OFF HOLD** button to turn on the meter. The display will light up.
3. **Immerse the Probe:** Remove the protective pen cup. Dip the probe into the water sample up to the immerse line. Do not immerse above this line.

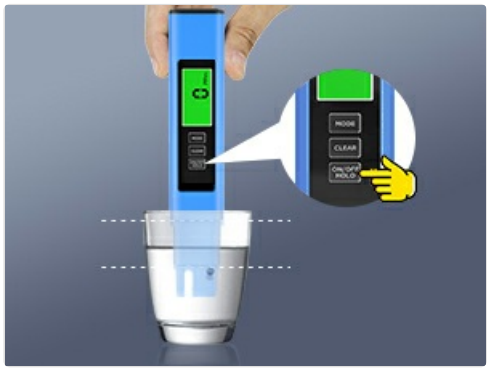

Image 3.1: Proper immersion of the TDS meter probe into a water sample. Ensure the water level does not exceed the indicated immerse line.

4. **Stir Gently:** Gently stir the meter in the water to remove any air bubbles and ensure a stable reading.

Image 3.2: Gently stirring the meter in the water to ensure accurate and stable readings by removing air bubbles.

5. **Wait for Reading:** Allow a few seconds for the reading to stabilize. The auto-lock function will typically hold the stable reading.

Image 3.3: The TDS meter displaying a stable reading after the probe has been immersed and gently stirred in the water sample.

6. **Read the Value:** Read the displayed value. If the reading is not locked, press the **ON/OFF HOLD** button to freeze the display.

Image 3.4: Pressing the ON/OFF HOLD button to manually freeze the displayed reading for easier recording.

7. **Switch Modes:** Press the **MODE** button to cycle through TDS (ppm), EC (µs/cm), Celsius (°C), and Fahrenheit (°F) measurements.
8. **Power Off:** Press the **ON/OFF HOLD** button again to turn off the meter. The device will automatically shut off after 2 minutes of inactivity.
9. **Clean and Store:** Rinse the probe with clean water and replace the protective pen cup before storing.

3.1 Interpreting TDS Readings

A colorful TDS chart is provided on the back of the tester and in this guide for quick reference:

Image 3.5: TDS chart illustrating water quality based on PPM (parts per million) values. Ranges include Ideal drinking water (0-50 ppm), Comparatively ideal drinking water (50-100 ppm), High hardness water (100-200 ppm), Marginally Acceptable (200-300 ppm), Scale will form (300-400 ppm), The taste is not very pleasant (400-500 ppm), and U.S EPA's maximum contamination level (500+ ppm).

TDS Measurement Guidelines (PPM)

PPM Range	Water Quality
0-50	Ideal drinking water
50-100	Comparatively ideal drinking water
100-200	High hardness water
200-300	Marginally Acceptable
300-400	Scale will form
400-500	The taste is not very pleasant
>500	U.S EPA's maximum contamination level

4. Maintenance

Proper maintenance ensures the longevity and accuracy of your MEXYBE TDS Meter.

- **Cleaning the Probe:** After each use, rinse the probe thoroughly with clean distilled water to prevent residue buildup. Do not use abrasive materials or harsh chemicals.
- **Storage:** Always replace the protective pen cup after use. Store the meter in a cool, dry place away from direct sunlight and extreme temperatures.
- **Battery Replacement:** Replace batteries when the display becomes dim or the meter fails to power on. Use only LR44 batteries.
- **Calibration:** The meter is factory calibrated. If you suspect inaccurate readings over time, recalibration may be necessary. Refer to the manufacturer's website or contact support for detailed calibration instructions.

5. Troubleshooting

If you encounter issues with your TDS meter, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
Meter does not turn on.	Dead or incorrectly installed batteries.	Check battery polarity or replace with new LR44 batteries.
Inaccurate or unstable readings.	• Probe not clean. • Air bubbles on the probe. • Water temperature outside operating range. • Meter requires recalibration.	• Rinse probe thoroughly with distilled water. • Gently stir the meter in the sample to remove bubbles. • Ensure water temperature is within 0-80°C (32-176°F). • Contact customer support for recalibration guidance.
Display is dim.	Low battery power.	Replace batteries with new LR44 batteries.

6. Specifications

Feature	Detail
Model Number	A2
Measurements	TDS (Total Dissolved Solids), EC (Electrical Conductivity), Temperature (°C, °F)
TDS Range	0-9999 ppm
Temperature Range	0-80°C (32-176°F)
Accuracy	±2%

Feature	Detail
Batteries	2 x LR44 (included)
Auto-Off	2 minutes
Item Weight	1.76 ounces
Package Dimensions	6.38 x 1.3 x 0.71 inches

7. Warranty and Support

MEXYBE is committed to providing high-quality products and excellent customer service. Your satisfaction is our priority.

- **Customer Support:** For any questions, concerns, or technical assistance, please contact our dedicated customer support team. We offer rapid and efficient responses through live chat and email.
- **Feedback:** We value our customers' feedback to continuously improve our products and services.

For further assistance, please refer to the contact information provided with your product packaging or visit the official MEXYBE website.