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## SULMILE EI-FC16-MT23

# SULMILE AZ-86031 5-in-1 Water Quality Meter

## INSTRUCTION MANUAL

### Introduction

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The SULMILE AZ-86031 is a versatile 5-in-1 water quality meter designed for comprehensive water analysis. This device can measure pH, conductivity, TDS (Total Dissolved Solids), salinity, dissolved oxygen (DO), and temperature, depending on the probes connected. Its multi-parameter capability makes it suitable for various applications including aquaculture, laboratories, swimming pools, and water treatment facilities.

The meter features a large LCD for simultaneous display of multiple parameters and is designed for easy probe attachment and replacement. Each probe is equipped with an anti-collision cap for enhanced durability in diverse measuring environments.



Image: The SULMILE AZ-86031 water quality meter with pH, conductivity, and dissolved oxygen probes connected, ready for use.

## What's in the Box

Carefully unpack the contents and ensure all items are present:

- AZ-86031 Meter Unit
- pH Probe
- Conductivity Probe
- Dissolved Oxygen (D.O.) Probe
- Membrane Set for D.O. Probe
- Cable Clip
- Calibration Solutions (pH 4, pH 7, pH 10, Electrolyte solution)
- AAA Batteries (4x)
- Instruction Manuals
- Hard Carrying Case



Image: The complete kit for the SULMILE AZ-86031 water quality meter, including the main unit, various probes, calibration solutions, and accessories, all organized within a protective carrying case.

## Setup

Follow these steps to prepare your AZ-86031 meter for use:

1. **Install Batteries:** Open the battery compartment on the back of the meter and insert 4 AAA batteries, ensuring correct polarity.
2. **Connect Probes:** The meter features color-coded connectors for pH (blue), Conductivity (black), and Dissolved Oxygen (green). Match the probe's connector color to the corresponding port on the meter and screw it in securely.
3. **Prepare D.O. Probe:** If using the Dissolved Oxygen probe, ensure the membrane cap is filled with the electrolyte solution and properly installed. Refer to the D.O. probe specific instructions for detailed preparation.
4. **Power On:** Press the power button to turn on the meter. The display will illuminate, showing various parameters.

Video: This video demonstrates the unboxing of the SULMILE AZ-86031 water quality meter kit, including the installation of batteries and the connection of the pH, conductivity, and dissolved oxygen probes to the main unit.



Image: A close-up view of the pH probe, showing its protective cap and connector, used with the SULMILE AZ-86031 water quality meter.



Image: A detailed view of the conductivity probe, highlighting its sensor and robust design, for use with the SULMILE AZ-86031 meter.



Image: The dissolved oxygen (DO) probe, featuring its membrane cap and sensor, designed for accurate measurements with the SULMILE AZ-86031 water quality meter.

## Operating Instructions

The AZ-86031 meter allows for easy switching between measurement modes:

1. **Select Measurement Mode:** Use the dedicated buttons (e.g., 'pH', 'COND', 'D.O.') on the meter to switch between the desired measurement parameters. The display will update to show the active mode.
2. **Calibration:** Before taking critical measurements, calibrate the probes according to the specific instructions for each parameter (pH, Conductivity, D.O.) using the provided calibration solutions. Press the 'CAL/ESC' button to enter calibration mode.
3. **Take Measurement:** Immerse the appropriate probe into the sample water. Ensure the sensor is fully submerged and allow sufficient time for the reading to stabilize on the LCD.
4. **Record Data:** Use the 'MEM' button to store readings if the meter supports data logging.
5. **Power Off:** Press and hold the power button to turn off the meter after use.

## Maintenance

Proper maintenance ensures the longevity and accuracy of your meter:

- **Probe Cleaning:** After each use, rinse probes thoroughly with distilled or deionized water to prevent

contamination and buildup.

- **pH Probe Storage:** Store the pH probe with its cap filled with appropriate storage solution (or pH 4 buffer if storage solution is unavailable) to keep the glass bulb hydrated. Do not store dry.
- **D.O. Probe Maintenance:** Regularly inspect and replace the membrane cap and electrolyte solution of the D.O. probe as needed, following the specific instructions provided with the probe.
- **Meter Cleaning:** Wipe the main meter unit with a soft, damp cloth. Do not use abrasive cleaners or solvents.
- **Battery Replacement:** Replace batteries when the low battery indicator appears on the display to ensure continuous operation.

## Troubleshooting

If you encounter issues, try these common troubleshooting steps:

- **Inaccurate Readings:** Ensure probes are clean and properly calibrated. Check for air bubbles around the D.O. probe membrane.
- **No Display/Power:** Verify batteries are correctly installed and charged. Replace with new batteries if necessary.
- **Probe Not Detected:** Ensure the probe connector is securely fastened to the meter. Check for any visible damage to the probe cable or connector pins.
- **Slow Response:** Allow more time for readings to stabilize, especially in samples with varying temperatures. Ensure probes are properly conditioned.

## Specifications

Feature	Detail
Model Number	EI-FC16-MT23
Measurement Parameters	pH, Conductivity, TDS, Salinity, Dissolved Oxygen, Temperature
Power Source	4 AAA batteries required
Package Dimensions	18.62 x 11.73 x 3.31 inches
Item Weight	5.3 pounds
Manufacturer	AZ
First Available Date	January 20, 2019

## Warranty and Support

For warranty information, technical support, or service inquiries regarding your SULMILE AZ-86031 Water Quality Meter, please refer to the contact details provided in the packaging or visit the official SULMILE website. Keep your purchase receipt as proof of purchase for any warranty claims.

