

DO500T Dissolved Oxygen Meter Operation Quick Guide

1. Specification

Parameters: Dissolved oxygen,
Saturation, Temperature

DO Range: (0.00-99.99) ppm

Saturation Range: (0.0-600.0) %

Temperature Range: (-10.0-135.0) °C

2. Screen Icons



Symbol	Explanation
1	User ID
2	Measurement parameters
3	Reading states
4	Measurement box
5	Method management.
6	Operation explanation

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Symbol	Explanation
7	System time
8	Calibration information
9	Sample ID
10	Function buttons.

Symbol	Explanation
	Reading status, display the measurement status of reading, stable, locked each indicates that the processing, stable, and reading completed.
ATC	Automatic temperature compensation
MTC	Manual temperature compensation
	Dissolved Oxygen Zero calibration
	Dissolved Oxygen Air calibration
	Measurement method management, display the

Symbol	Explanation
	current method information
	User ID
	Sample ID

3. Preparation

- Install the DO electrode follow the steps:
 - Take the cap off the electrodes, rinse the cap with DI water and dry out.
 - Rinse the inner electrode with DI water and dry the electrode.
 - Add the filling solution (electrolyte) into the membrane cap up to 3/4.
 - Install the cap onto the electrode.
- Polarographic DO electrodes need to be polarized before use:
 - Connect the DO electrode to the meter.
 - Turn on the meter, wait for 1 hour and the electrode are auto polarized.
 - When the electrodes are unplugged from the meter for no more than 1 hour,

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measurements are allowed after 25 minutes of polarization.

3. Prepare the samples and standards.
4. Select the measurement methods.
5. Select the reading mode to process measurement.

4. Calibration

1. Press "CAL & Check" to electrode calibration.
2. Place the electrode into oxygen-free solution.
3. After the reading is stable, press the "CAL Zero" to complete the zero calibration.
4. Rinse the electrode with DI water again, place the probe in the upper part of a bottle filled with air-saturated (well shaken) water.
5. After the reading is stable, press the "Air-Sat" to complete the air calibration.



5. Measurement

1. Select a method or create a new method (e.g., 002 DO measure method).
2. Or set the parameter.
 - 1) Set the parameters (e.g., DO).
 - 2) Set the reading mode (e.g., continuous reading, auto-reading, and timed format).
 - 3) Set the DO salinity compensation.
 - 4) Set the DO barometric compensation.
 - 5) Set the DO alarm.
3. Press "Measure" to measure.
4. Put the electrode into test solution under test and shake the electrode gently in a circle, in a circular motion, or use a stirrer to avoid air bubbles during the process.

5. When the reading is stable, record the results.
6. Press the "Save" to save the measurement results
7. Press the "Output" to print the measurement result.
8. Press "End Measure" to end the measurement.

Note 1: Please calibrate and polarized the electrode before the measurement for an accurate measurement.

Note 2: Before the measurement, select "CAL & Check" - "DO Air-Sat check" or "DO Zero check" to check.

