

DO510T Dissolved Oxygen Meter Operation Quick Guide

1. Specification

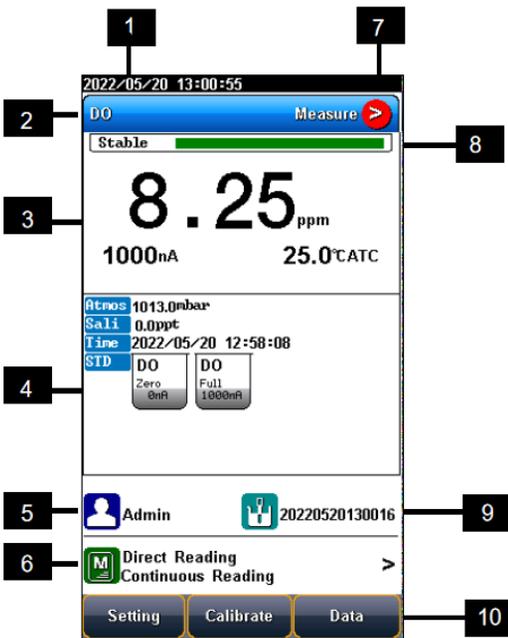
Parameters: Dissolved oxygen,
Saturation, Temperature

DO Range: (0.00-99.99) ppm

Saturation Range: (0.0-600.0) %

Temperature Range: (-10.0-135.0) °C

2. Screen Icons



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Symbol	Explanation
1	System Time
2	Measurement parameters
3	Main measurement box
4	Calibration information
5	User ID
6	Method management
7	Power information
8	Reading states
9	Sample ID
10	Function buttons.

Symbol	Explanation
Curr	Current
TM	Temperature
ATC	Automatic temperature compensation
MTC	Manual temperature compensation
AP	Air pressure compensation
Salt	Salinity compensation
Time	Calibration Time
STD	Calibration of DO electrode
Reading	Reading status
ATC	Automatic temperature compensation

Symbol	Explanation
MTC	Manual temperature compensation
AP	Air pressure compensation in DO measuring
SALT	Salinity compensation in DO measuring
Zero 0	Dissolved Oxygen Zero calibration
Full 1000	Dissolved Oxygen Air calibration
M	Measurement method management, display the current method information

3. Preparation

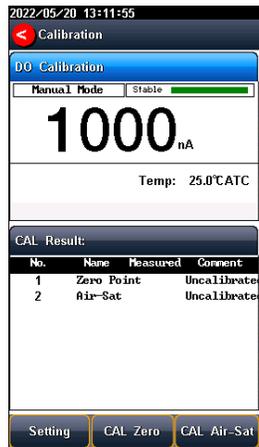
1. Install the DO electrode follow the steps:
 - 1) Take the cap off the electrodes, rinse the cap with DI water and dry out.
 - 2) Rinse the inner electrode with DI water and dry the electrode.
 - 3) Add the filling solution (electrolyte) into the membrane cap up to 3/4.
 - 4) Install the cap onto the electrode.

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2. Polarographic DO electrodes need to be polarized before use:
 - 1) Connect the DO electrode to the meter.
 - 2) Turn on the meter, wait for 1 hour and the electrode are auto polarized.
 - 3) When the electrodes are unplugged from the meter for no more than 1 hour, measurements are allowed after 25 minutes of polarization.
3. Prepare the samples and standards.
4. Select the measurement methods.

4. Calibration

1. Press "Calibrate" to electrode calibration.



2. Press "Setting" to set the salinity and the atmosphere pressure.
3. Rinse the electrode with DI water, place it into oxygen-free solution.
4. After the reading is stable, press the "CAL Zero" to complete the zero calibration.
5. Rinse the electrode with DI water again, place the probe in the upper part of a bottle filled with air-saturated (well shaken) water.
6. After the reading is stable, press the "CAL 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 setting.
3. Press  to measure. When the reading is stable, record the results.
4. Press the "Save" to save the measurement results.

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

