

DO310F Dissolved Oxygen Meter Operation Quick Guide

1. Specification

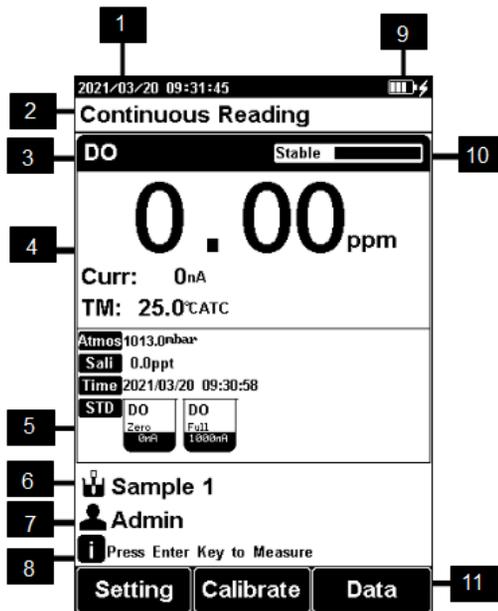
Parameters: Dissolved oxygen,
Saturation, Temperature

DO Range: (0.00-50.00) ppm

Saturation Range: (0.0-300.0) %

Temperature Range: (-5.0-110.0) °C

2. Screen Icons



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

Symbol	Explanation
Curr	Current
TM	Temperature
ATC	Automatic temperature compensation
MTC	Manual temperature compensation
Atmos	Air pressure compensation
Sali	Salinity compensation
Time	Calibration Time

Symbol	Explanation
STD	Calibration of DO electrode
Zero	Zero calibration
Air-Sat	Air calibration
Reading	Reading state
	User ID
	Sample ID
	Operation notice
	Battery Storage
	Charging

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.

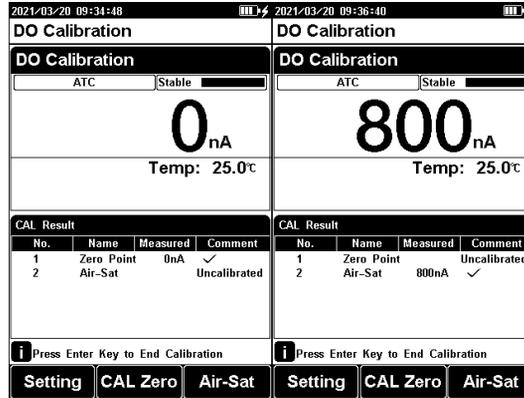
2. Polarographic DO electrodes need to be polarized before use:
 - 1) Connect the DO electrode to the meter.
 - 2) Turn on the meter, wait for 1 hour and the electrode are auto polarized.
 - 3) When the electrodes are unplugged from the meter for no more than 1 hour, measurements are allowed after 25 minutes of polarization.
3. Prepare the samples and standards.
4. Press F1 "Setting" to select the measurement parameters.

4. Calibration

1. Press F1 "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 start the zero calibration, and press the "Enter" 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. When the reading is stable, press the "Air-Sat" to start the air calibration, and press the "Enter" to complete the air calibration.



5. Measurement

- 1 . Press F1 "Setting" for parameter setting, select the reading mode.
- 2 . Press "Enter" to measure. Put the rinsed 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.
- 3 . After 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.

