

# sensation<sup>TM</sup> DO METER QUICK REFERENCE CARD

**Table 1 Changing Meter Setup Options**

Setup	How To Get There	Description of Option
1	Turn the meter on and press <b>SETUP/CE</b> . Press <b>READ/ENTER</b> .	Display continuous dissolved oxygen readings or lock the reading when the value stabilizes. <b>READ/ENTER</b> toggles between the options. Press <b>EXIT</b> when selection is complete.
2	Turn the meter on and press <b>SETUP/CE</b> . Press the up arrow once.	Use Metric (°C, mm Hg, meters) or English (°F, in. Hg, feet) units by showing °C or °F. <b>READ/ENTER</b> toggles between the options. Press <b>EXIT</b> when selection is complete.
3	Turn the meter on and press <b>SETUP/CE</b> . Press the up arrow twice.	Display D.O. concentrations in <b>0.0 mg/L</b> or <b>0.00 mg/L</b> resolution. <b>READ/ENTER</b> toggles between the options. Press <b>EXIT</b> when selection is complete.
4	Turn the meter on and press <b>SETUP/CE</b> . Press the up arrow three times. Press <b>READ/ENTER</b> .	Adjust the displayed D.O. concentration based on sample salinity. Use the number keys to enter a salinity value ranging from 0–42. Press <b>READ/ENTER</b> and then <b>EXIT</b> when selection is complete.
5	Turn the meter on and press <b>SETUP/CE</b> . Press the up arrow four times. Press <b>READ/ENTER</b> .	Use the number keys to enter the barometric pressure. Press <b>READ/ENTER</b> and then <b>EXIT</b> when selection is complete. See <i>Table 2</i> below.
6	Turn the meter on and press <b>SETUP/CE</b> . Press the up arrow five times. Press <b>READ/ENTER</b> .	Use the number keys to enter the altitude. Press <b>READ/ENTER</b> and then <b>EXIT</b> when selection is complete. See <i>Table 2</i> below.
7	Turn the meter on and press <b>SETUP/CE</b> . Press the up arrow six times. Press <b>READ/ENTER</b> .	Use the number keys to enter the time. Press <b>READ/ENTER</b> and then <b>EXIT</b> when selection is complete.
8	Turn the meter on and press <b>SETUP/CE</b> . Press the up arrow seven times. Press <b>READ/ENTER</b> .	Use the number keys to enter the date. Press <b>READ/ENTER</b> and then <b>EXIT</b> when selection is complete.
9	Turn the meter on and press <b>SETUP/CE</b> . Press the up arrow eight times. Press <b>READ/ENTER</b> .	Use the number keys to enter the year. Press <b>READ/ENTER</b> and then <b>EXIT</b> when selection is complete.
10	Turn the meter on and press <b>SETUP/CE</b> . Press the up arrow nine times. Press <b>READ/ENTER</b> .	Use the arrow keys to select time intervals for automatic data transfer. Press <b>READ/ENTER</b> and then <b>EXIT</b> when selection is complete.

**Table 2 Adjusting Barometric Pressure and Altitude**

Enter a new barometric pressure when the barometric pressure or the instrument altitude changes.	
Using Sea Level Equivalent	Using True Barometric Pressure
1. Obtain the sea level equivalent barometric pressure from TV, radio, or a local airport.	1. Obtain the true barometric pressure from a nearby mercury barometer or use <i>Table 11</i> on page 74 of the manual.
2. Enter this value into the meter in Setup 5.	2. Enter this value into the meter in Setup 5 or during calibration.
3. Enter the local altitude in Setup 6.	3. Enter the altitude as <b>0</b> feet or meters.

# CALIBRATION IN WATER SATURATED AIR

**Note:** Zero the **sensior6** Dissolved Oxygen meter only when measuring dissolved oxygen levels less than 1 mg/L or 10% saturation. When measuring in this range, zero the meter prior to calibration.

1. Secure the probe cable to the calibration and storage chamber by wrapping cable through the bottom of the chamber lid before filling with water.
2. Prepare the calibration and storage chamber by holding it under water and squeezing it a couple of times to pull a small amount of water into the lower chamber through the inlet. Alternately, open the bottom of the chamber and insert a water-soaked sponge.

**Note:** Avoid completely filling the lower chamber with water.

3. Insert the DO probe into the calibration and storage chamber. The tip of the probe must not be flooded with water or be holding a drop of water on the membrane.
4. Allow at least ten minutes for the atmosphere in the chamber to reach a steady state.

**Note:** Gently squeeze the lower chamber to force water-saturated air into the probe compartment to speed stabilization.

**Note:** Keep the DO probe at a uniform temperature. When holding the probe, do not touch the metallic button on the side of the probe. The button is a thermistor that senses temperature. An inaccurate calibration will result if the temperature of the thermistor is different from the probe membrane.

5. Press the **CAL** key located in the lower left corner of the keypad.
6. The main display will show the current value for the barometric pressure. If the meter has been moved to a different elevation or if the barometric pressure has changed, enter the new value.
7. Press the **READ/ENTER** key. The display will show the current value for the altitude. Use the keypad to enter the altitude of the meter.

**Note:** If the true barometric pressure has just been entered, the altitude has to be set to 0 meters (0 feet) or inaccurate calibration may result.

8. When the altitude is correct in combination with the barometric pressure, press the **READ/ENTER** key. The current value for the sample salinity (**0/00**) will be shown.
  - a. Since this calibration is performed in water-saturated air, set the salinity to zero.
  - b. If necessary, use the keypad to enter a salinity value of **0 0/00**.
  - c. Press the **READ/ENTER** key. The display will show **100%**.
  - d. Press the **READ/ENTER** key. The stabilizing icon will appear during the calibration.
9. When the calibration is complete, the meter will return to the read mode. Press the **EXIT** key during the calibration sequence to back out of the calibration routine, one screen one-at-a-time, without completing a calibration.



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