In-Situ Inc.

Innovations in Water Monitoring

Instruction Sheet

Calibration Kit for the RDO® PRO and RDO® PRO-X Probe

Part number 0082250

Kit Contents

- Calibration and storage chamber
- Calibration cap
- Storage cap
- Sodium sulfite

Figure 1.1 Calibration chamber with water-saturated sponge

1-Point Calibration

Water-Saturated Air

1. Remove the storage cap from the top of the calibration chamber and replace it with the vented calibration cap.

1	Storage cap
2	Vented calibration cap

2. Place the sponge wafer in the bottom of the calibration chamber and saturate with approximately 10 mL water.

3. Gently dry the instrument and sensing material with a paper towel, making sure there is no water or debris on the instrument or on the sensing surface.

4. Place the instrument into the calibration chamber about 2.5 cm (1 in.) above the water-saturated sponge.

5. Allow 5 to 10 minutes for temperature stabilization prior to starting the calibration procedure. Do not leave the instrument in the calibration chamber for more than 30 minutes. This can allow condensation to form on the sensing material, which will produce false low readings after calibration. If condensation does occur, remove the instrument, dry the sensing material, place the instrument in the chamber, and calibrate.

2-Point Calibration

100% and 0% Saturation

1. Set up the calibration procedure as previously described, and perform a water-saturated air calibration.

2. Remove the water-saturated sponge from the calibration chamber and fill the chamber to the fill line with approximately 60 mL of fresh sodium sulfite solution.

1	Fill line
2	Temperature sensor

2. Place the instrument into the solution. Leave at least 13 mm (0.5 in.) between the surface of the sensing material and the bottom of the chamber.

3. Ensure that the temperature sensor is completely submerged in the solution.

4. Allow at least 5 minutes for the temperature to stabilize prior to performing the calibration procedure.

5. Once calibration is complete, remove the sensor, and thoroughly rinse to remove all of the sodium sulfite.