

CALIBRATION WORK SHEET

Date of Calibration: 09/28/2014
 Technician: Gelpi

Sonde ID: 0368861 A12

RP DO membrane changed? Y N *Note: Wait 3 to 6 hours before calibrating for unattended*
 RP DO membrane o-ring changed? Y N *deployments; run in Discrete mode for 10 minutes to accelerate*
burn in. (Rapid Pulse DO Only)

~~Turbidity wiper changed?~~ Y N ~~Chlorophyll wiper changed?~~ Y N *removed*
~~ROX DO wiper changed?~~ Y N ~~BGA-PE wiper changed?~~ Y N
~~BGA-PC wiper changed?~~ Y N ~~Rhodamine wiper changed?~~ Y N

Note: If parking problems occur with optical probes having a serial number 07L (Dec 07) or older, be sure the firmware is 3.06 or later. Parking issues with optical probes having a serial number prior to 07L may be related to a dirty wiper body or pad.

Record sonde battery voltage: 13.2 V (if applicable)

Record Calibration Values
 Standard Pre Cal / Post Cal

Record the following diagnostic numbers after calibration.

6560 Conductivity cell constant forgot Range 5.0 ± .45

Integrated conductivity cell constant Range 5.0 ± .70

pH mv Buffer 7 -8.5 Range 0 ± 50 mv

pH mv Buffer 4 165 Range +180 ± 50 mv*

pH mv Buffer 10 -178.5 Range -180 ± 50 mv *

*Note: Millivolt span between pH 4 and 7 should be ≈ 165 to 180 mv

Millivolt span between pH 7 and 10 should be ≈ 165 to 180 mv

DO charge (RP only) 50.2 Range 25 to 75

~~DO gain~~ Range 0.7 to 1.4

ODO gain Range 0.85 to 1.15

Turbidity standard used in calibration

Manufacturer and part number

Barometric Pressure: 759 mmHg

DO % Calculated – (BARO mmHg divided by 7.6) = % saturation

Example: 760 ÷ 7.6 = 100.0%

Depth Calibration – If zero was entered, record barometric pressure at time of calibration mmHg

Depth Calibration - If offset depth was entered, record value meters/feet and pressure mmHg

Depth Calibration (Vented) – Acceptable calibration constant: -0.0 psig ± 0.15

Temperature	<u>22.38</u>	<u>27.12</u>	Sonde
Conductivity	<u>10 mS/cm</u>	<u>10.171</u>	<u>10.0</u>
pH 7	<u>7.6</u>	<u>7.081</u>	
pH 4	<u>4.0</u>	<u>4.141</u>	
pH 10	<u>10.0</u>	<u>9.961</u>	
ORP	<u> </u>	<u> </u>	
Turbidity	<u> </u>	<u> </u>	
Turbidity	<u> </u>	<u> </u>	
Turbidity 0.5	<u> </u>	<u> </u>	
Chlorophyll	<u> </u>	<u> </u>	
Chlorophyll	<u> </u>	<u> </u>	
DO RP	<u> </u>	<u>1381</u>	<u>998</u>
DO ROX	<u> </u>	<u> </u>	
BGA PE/PC	<u> </u>	<u> </u>	
BGA PE/PC	<u> </u>	<u> </u>	
Rhodamine	<u> </u>	<u> </u>	

Notes: *This is a cal check after instrument returned from YSI. Chlorophyll sensor was removed. Clock was 10 minutes fast & reset to cell phone time. Van Nuys airport pressure used for DO calibration. Not adjusted for altitude. pH sensor was not recalibrated. Unattended sampling was checked and it worked. Temperature checked against average of 2 Onset devices*