

CALIBRATION WORK SHEET

Date of Calibration: 2/18/2017
 Technician: Gelpi

Sonde ID: 4360461 AA

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
 Turbidity wiper changed? ~~Y~~ N Chlorophyll wiper changed? ~~Y~~ N burn in. (Rapid Pulse DO Only)
 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: 12.1V (if applicable)

Record Calibration Values
 Standard Pre Cal / Post Cal

Record the following diagnostic numbers after calibration.

6560 Conductivity cell constant 4.93 Range 5.0 ± .45

Integrated conductivity cell constant _____ Range 5.0 ± .70

pH mv Buffer 7 -28.8 mV Range 0 ± 50 mv

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

pH mv Buffer 10 -203 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) 28.8 Range 25 to 75

DO gain 2.126 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: 750.23 mmHg 29.54 in at. net

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

Example: 760 ÷ 7.6 = 100.0% 98.7% DO

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 _____

	Standard	Pre Cal / Post Cal
Temperature	_____	Sonde _____
Conductivity	<u>50.0</u>	<u>54.65</u> <u>50.01</u>
pH 7	<u>7</u>	<u>7.28</u> <u>6.98</u>
pH 4	_____	_____
pH 10	<u>10</u>	<u>10.26</u> <u>9.98</u>
ORP	_____	_____
Turbidity	_____	_____
Turbidity	_____	_____
Turbidity 0.5	_____	_____
Chlorophyll	_____	_____
Chlorophyll	_____	_____
DO RP	<u>air set</u>	<u>803</u> <u>98.6</u>
DO ROX	_____	_____
BGA PE/PC	_____	_____
BGA PE/PC	_____	_____
Rhodamine	_____	_____

Notes: Time Sonde 8:49:25 cell/mon 7:25. Appears to be a long time to reach stability. pH offset (pH-7)*K = -153186. pH gain (pH-7)*K/guv = -5.00263
TDS const = 0.65. DO out of range