

CALIBRATION WORK SHEET

Date of Calibration: November 23, 2014
 Technician: Gelpi

Sonde ID: 0360061AA

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~~
~~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: 12.2V (if applicable)

Record Calibration Values
 Standard Pre Cal / Post Cal

Record the following diagnostic numbers after calibration.

6560 Conductivity cell constant 5.07985 Range 5.0 ± .45

Integrated conductivity cell constant _____ Range 5.0 ± .70

pH mv Buffer 7 -12.5 Range 0 ± 50 mv

pH mv Buffer 4 1621 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) 38 Range 25 to 75

DO gain 1.07498 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: 764.54 mmHg (altitude)

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>18.39</u>	<u>18.25</u>	Sonde
Conductivity	<u>50</u>	<u>42.8</u>	<u>50</u>
pH 7	<u>7</u>	<u>-1203</u>	
pH 4	<u>4</u>	<u>13.95</u>	
pH 10	<u>10</u>	<u>9.86</u>	<u>10</u>
ORP	_____	_____	_____
Turbidity	_____	_____	_____
Turbidity	_____	_____	_____
Turbidity 0.5	_____	_____	_____
Chlorophyll	_____	_____	_____
Chlorophyll	_____	_____	_____
DO RP	<u>air sat</u>	<u>100%</u>	
DO ROX	_____	_____	_____
BGA PE/PC	_____	_____	_____
BGA PE/PC	_____	_____	_____
Rhodamine	_____	_____	_____

Notes: YS7 clock read 16:13:18 when phone time said 3:08(p.m) i.e. YSZ was 1 hr 5 minutes fast. Used Van Nuys airport altitude ready for DO cal. Calibration temp was the average of 4 offset devices.