

CALIBRATION WORK SHEET

Date of Calibration: 7/22/2015
 Technician: Gelpi

Sonde ID: 0360061 AA

RP DO membrane changed? N *Note: Wait 3 to 6 hours before calibrating for unattended*
 RP DO membrane o-ring changed? 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: 11.2v (if applicable)

Record Calibration Values
 Standard Pre Cal / Post Cal

Record the following diagnostic numbers after calibration.

6560 Conductivity cell constant 4.95 Range 5.0 ± .45

Integrated conductivity cell constant ? Range 5.0 ± .70

pH mv Buffer 7 -19mv Range 0 ± 50 mv

pH mv Buffer 4 Range +180 ± 50 mv*

pH mv Buffer 10 204.4mv 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 1.43 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: 758.19 mmHg

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

Example: 760 ÷ 7.6 = 100.0% 99.79% = 758.19 / 7.6

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 80°F 29.9C Sonde

Conductivity 50 5068/5000

pH 7 7 6.53/7.04

pH 4

pH 10 10 10.52/10.0

ORP

Turbidity

Turbidity

Turbidity 0.5

Chlorophyll

Chlorophyll

DO RP 99.79% 99.89

DO ROX

BGA PE/PC

BGA PE/PC

Rhodamine

Notes: *time was 17 minutes just reset to cell phone time
 set for 20 sec sampling 7/25/2015 at 7am to 9:30 7/26/2015
 file for output = TWOHAR1
 sufficient battery life & buffers*