

YSI MULTIPROBE CALIBRATION/MAINTENANCE LOG

Calibration

Date: _____ Time: _____ Employee Name: _____
 Battery Voltage: _____ Sonde Type and Serial No. _____

Function	Temp. of Standard	Value of Standard	Initial Reading	Calibrated To	Comments
Specific Conductance (high) ~100 mS/cm					
Specific Conductance (med) ~10 mS/cm					
Specific Conductance (low) ~1 mS/cm					
Conductivity Cell Constant (see *)					Range 4.6 to 5.45
pH calibrated (at pH 7)					
pH mV for pH 7 solution					Range 0 to 40 mV
pH calibrated (at pH <u>4</u> <u>10</u> – circle one)					
pH mV for pH 10					Range: -160 to 40 mV
pH mV for pH 4					Range: +160 to 40 mV
Dissolved Oxygen (% sat)					
Dissolved Oxygen Charge					Range 25 to 75
Dissolved Oxygen Gain (see *)					Range 0.8 to 1.7

DATA NEEDED FOR DISSOLVED OXYGEN CALIBRATION

Altitude (A)= _____ feet above msl	Barometric Pressure _____ inches
Barometric Pressure (BP) Options	Barometric Pressure Formulas
Barometer	Barometric Pressure (inches) _____ x 25.4 = BP _____ mm
From Local Source After Correction (CBP)	BP _____ mm = CBP _____ mm - 2.5 (altitude ____/100)
Estimated From Altitude Only	BP _____ mm = 760 mm - 2.5 (altitude ____/100)

Deployment Checklist (required for data logging only)

Logging Interval: Yes No	SDI-12 Autosleep enabled: Yes No
DO warm-up time:	Battery Volts in Sonde (days):
RS 232 Autosleep enabled: Yes No	Available Memory in Sonde (days):

Post-Calibration

Date: _____ Time: _____ Employee Name: _____
 Battery Voltage: _____ Sonde Type and Serial No. _____

Function	Temp. of Standard	Value of Standard	Initial Reading	Comments
Specific Conductance				
pH calibrated (~7)				
pH slope (~ 4/10)				
Dissolved Oxygen				

Check previous maintenance and use; do the following before calibration:

Brush conductivity cell. Must be cleaned within the last two months or once every 15 field trips	Date:	Name/Comments:
Inspect D.O. membrane for nicks or bubbles. Must be changed within last six months or once every 15 field trips.	Date:	Name/Comments:

Comments:

* To display Conductivity Cell Constant and Dissolved Oxygen Charge (DO ch) on 650 MDS: Go to "Sonde Menu", "Advanced", "Cal Constants"