ProDSS **Calibration Worksheet**



04/11/16 03:22:39PM

Calibration value [10.03] Accept Calibration Finish Calibration Press ESC to Abort Last Calibrated

01/01/70 00:00:00AM Actual Readings 22.8 Ref °C -199.0 pH mV 10.40 pH Post Cal Value 10.03 pH

pН

Calibrate pH

10.6 10.2 9.8

131 Ready for cal point 3 100

281

When the Environment Demands It

This calibration worksheet can help document your calibration and track the performance of your sensors. Please follow the detailed calibration procedures in the ProDSS manual or your facility's standard operating procedure (SOP) to ensure all calibrations are as accurate and as consistent as possible.

Refer to the YSI Solution Expiration Dates document to ensure your calibration solutions are fresh. In addition to using fresh standards, never accept an out-of-range or questionable calibration results.

Calibration Date			Technician:		
Handhe	eld Serial Numbe	er:	Handheld Software Version:		
Cable S	erial Number:				
<u>Tempe</u>	erature			\ \	
Reading	g when sensor is a	dry and in room tem	p air:	Accurate? Y N	
Condu	ıctivity				
Reading	g when sensor is a	dry and in room tem	p air:	Acceptable value is <u>less</u> than 1 µS .	
Actual R	Reading in solutio	n before calibration	is accepted:		
	•		on is completed:		
Neaung	g in canoration so		on is completed		
Conduc	tivity Cell Consta	nt in GLP* record af	ter calibration:		
	-			 sors (626902) is 4.5 to 6.5	
			· ·		
Ac	ceptable range to	or integral (i.e. built-	in) sensors on ODO	/CT assemblies is 4.4 to 6.4	
Optica	al Dissolved C)xvaen			
-					
Darome	tric pressure:				
Actual F	Reading before D	O% calibration is ac	cepted:		
	•		er calibration is com		
Reading		ion environment at		pieted	
ODO ga	ain in GLP record	after calibration:	Accepta	ble range is 0.75 to 1.50	
ъЦ				-	
<u>рН</u>		A stud Deedings		1	
Duffor	Calibration Value			Accortable all mV in buffer	
Buffer 7		<u>рН</u>	<u>pH mV</u> **	<u>Acceptable pH mV in buffer</u> -50 mV to 50 mV	
7					
4				+165 to +180 from pH 7 buffer mV value	
10				-165 to -180 from	
				pH 7 buffer mV value	

pH slope in GLP record after calibration:_

Acceptable range is ~ 55 to 60 pH/mV

(Ideal is 59.16 mV/pH)

*GLP stands for Good Laboratory Practice file. This calibration record contains important information about the calibration result. **The pH mV at the time of calibration (Sensor Value) can also be seen in the final pH GLP record.

ProDSS Calibration Worksheet



When the Environment Demands It

<u>ORP</u>

Actual Reading in solution before calibration is accepted:_____ Reading in calibration solution after calibration is completed:_____

ORP Cal Offset in GLP record after calibration:_____

Acceptable range is **-100** to **50**

Turbidity

<u>Calibration</u> value (FNU)*	<u>Actual Reading</u> during calibration
0	
12.4*	
124*	
1010	

Acceptable range for <u>Actual Reading</u> during calibration of the first point is **-10** to **10** FNU

***Note:** The turbidity sensor can be calibrated to 3 points. Either 12.4 or 124 FNU standard can be used for the second point, but not both. Other calibration values can be used when calibrating.

Calibrate Turbidity • Calibration value [1010.0 Accept Calibration Finish Calibration Press ESC to Abort Last Calibrated 04/11/16 03:35:43PM Actual Readings 1005.3 FNU Post Cal Value FNU 1030.2 1005.9 981.5 268 118 Ready for cal point 3

04/11/16 03:41:01PM

<u> Depth (Completed in Air)</u>

Actual Reading before calibration is accepted:

Reading in air after calibration is completed:_____

<u>Ammonium</u>

	Actual Readings during calibration		
<u>Concentration</u> ** (i.e. Calibration Value)	<u>mg/L</u>	<u>mV</u> ***	Acceptable mV when the sensor is new
1st point: 1 mg/L			-20 mV to 20 mV
2nd point: 100 mg/L			+90 to +130 from mV value in 1 mg/L standard

<u>Nitrate</u>

	Actual Readings during calibration		
<u>Concentration</u> ** (<u>i.e. Calibration Value)</u>	<u>mg/L</u>	<u>mV</u> ***	Acceptable mV when the sensor is new
1st point: 1 mg/L			180 mV to 220 mV
2nd point: 100 mg/L			-90 to -130 from mV value in 1 mg/L standard

<u>Chloride</u>

	Actual Readings during calibration		
<u>Concentration</u> ** (<u>i.e. Calibration Value)</u>	<u>mg/L</u>	<u>mV</u> ***	Acceptable mV when the sensor is new
1st point: 10 mg/L			205 mV to 245 mV
2nd point: 1,000 mg/L			-80 to -130 from mV value in 10 mg/L standard

**Other standard concentrations can be used. A 2 point calibration without chilling a third calibration solution is extremely accurate and is the preferred method. However, if there is a large temperature variation during sampling, a chilled third calibration point is recommended.

***The mV at the time of calibration (Sensor Value) for each point can also be seen in the GLP record after a calibration is complete.

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