



CALIBRATION CERTIFICATE

Form No 830, Juli 2012

a xylem brand

Certificate no: 4831_888_00171815
Foil batch no: 1824M

Product: 4831
Calibration date: 14.06.2020

Serial no: 888
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Index	Temperature reference(°C)	[O2] Reference(µM)	Temperature raw data(mV)	Phase reading(°)
0	30.680	2.37	-129.307	58.80
1	20.298	2.38	200.153	60.03
2	10.228	2.64	522.693	60.87
3	0.871	3.39	801.880	61.57
4	0.989	23.56	798.560	58.82
5	1.084	46.00	795.900	56.10
6	1.157	66.42	793.853	53.86
7	1.218	108.72	792.107	49.88
8	1.266	152.52	790.760	46.47
9	1.298	219.48	789.847	42.31
10	1.322	328.66	789.187	37.31
11	1.340	430.18	788.680	33.95
12	1.352	530.35	788.333	31.41
13	10.854	16.73	503.020	58.07
14	10.752	35.83	506.227	54.73
15	10.677	52.71	508.587	52.15
16	10.613	86.95	510.600	47.81
17	10.496	118.95	514.240	44.59
18	10.451	170.58	515.667	40.42
19	10.422	252.87	516.600	35.61
20	10.417	336.64	516.767	32.14
21	10.421	425.00	516.633	29.41
22	20.664	12.90	188.287	57.05
23	20.565	28.06	191.480	53.33
24	20.485	41.57	194.100	50.55
25	20.469	68.41	194.600	46.01
26	20.456	94.48	195.000	42.57
27	20.451	135.69	195.200	38.33
28	20.450	201.69	195.200	33.54
29	20.452	268.89	195.133	30.19
30	20.450	337.50	195.213	27.67
31	30.370	10.57	-119.800	55.85
32	30.391	22.49	-120.427	51.99
33	30.423	33.57	-121.420	49.02
34	30.446	55.25	-122.140	44.36
35	30.458	77.36	-122.500	40.68
36	30.470	111.38	-122.860	36.41
37	30.487	166.04	-123.387	31.71
38	30.497	222.37	-123.680	28.42
39	30.504	279.63	-123.900	26.02

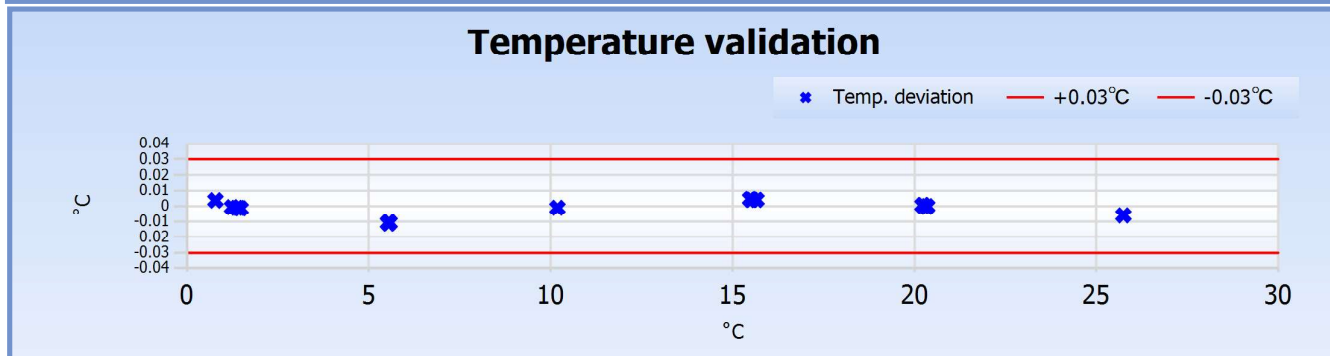
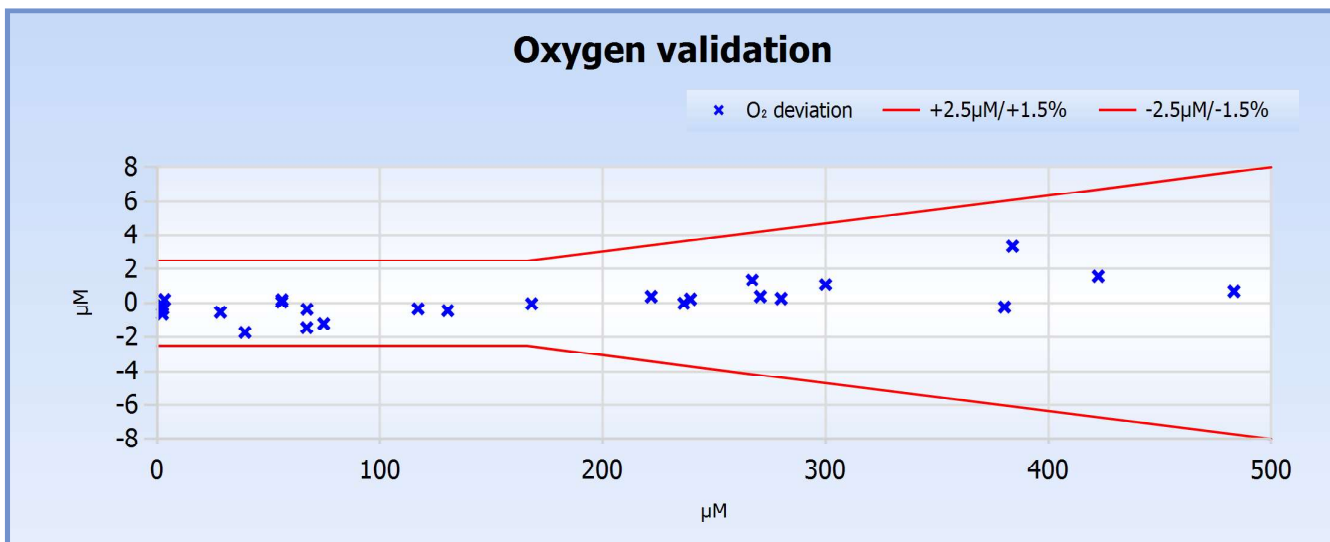
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Giving these coefficients

Index	0	1	2	3	4	5	6
SVUFoilCoef	2.81181E-03	1.20302E-04	2.28584E-06	1.62114E02	-2.49194E-01	-3.65610E01	3.22994E00
TempCoef	2.65321E01	-3.15968E-02	3.13930E-06	-4.53874E-09	0.00000E00	0.00000E00	



With following settings

Index	0	1	2	3
PhaseCoef	-6.71000E-01	1.00000E00	0.00000E00	0.00000E00

Index	0 (Offset)	1 (Slope)
ConcCoef	0.00000E00	1.00000E00

Salinity	0.00
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Firmware Version	5.1.1
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Date: 14.06.2020

Tor-Ove Kvalvaag
Tor-Ove Kvalvaag, Calibration Engineer

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Product Name      4831 888 Oxygen Optode
Product Number   4831 888 4831
Serial Number    4831 888 888
SW ID 4831 888 1940031
SW Version 4831 888 5 1 1
HW ID 1 4831 888
HW Version 1 4831 888
HW ID 2 4831 888
HW Version 2 4831 888
HW ID 3 4831 888
HW Version 3 4831 888
System Control  4831 888 0 0 0
Production Date 4831 888
Last Service    4831 888
Last Calibration 4831 888
Calibration Interval[Days] 4831 888 0
Node Description 4831 888 Oxygen Optode #888
Owner 4831 888
Baudrate 4831 888 9600
Flow Control 4831 888 Xon/Xoff
Enable Comm Indicator 4831 888 Yes
Comm Timeout 4831 888 1 min
Salinity[PSU] 4831 888 0.00
TempCoef 4831 888 2.653206E+01 -3.159684E-02 3.139295E-06
-4.538743E-09 0.000000E+00 0.000000E+00
PTC0Coef 4831 888 0.000000E+00 0.000000E+00 0.000000E+00 0.000000E+
00
PTC1Coef 4831 888 1.000000E+00 0.000000E+00 0.000000E+00 0.000000E+
00
PhaseCoef 4831 888 -6.709999E-01 1.000000E+00 0.000000E+00 0.000000E+
00
FoilID 4831 888 1824M
FoilCoefA 4831 888 -2.679283E-06 -7.483597E-06 1.960006E-03
-2.072853E-01 6.012464E-04 -6.604266E-07 1.118020E+01
-5.148064E-02 6.898503E-05 8.465012E-07 -3.143506E+02 2.051116E+
00 -2.987026E-03 -4.449771E-06
FoilCoefB 4831 888 -1.861349E-06 3.814899E+03 -3.222806E+01
-1.678000E-01 1.894820E-02 -6.901433E-04 1.042693E-05 0.000000E+
00 0.000000E+00 0.000000E+00 0.000000E+00 0.000000E+
00 0.000000E+00
FoilPolyDegT 4831 888 1 0 0 0 1 2 0 1 2 3
0 1 2 3 4 0 1 2 3 4 5 0 0 0
0 0 0 0
FoilPolyDegO 4831 888 4 5 4 3 3 3 2 2 2 2
1 1 1 1 1 0 0 0 0 0 0 0 0 0
0 0 0 0
SVUFoilCoef 4831 888 2.811814E-03 1.203019E-04 2.285839E-06
1.621135E+02 -2.491935E-01 -3.656099E+01 3.229935E+00
ConcCoef 4831 888 0.000000E+00 1.000000E+00
NomAirPress[hPa] 4831 888 1013.25
NomAirMix 4831 888 0.20946
CalDataSat[Deg] 4831 888 0.00 0.00
CalDataAPress[hPa] 4831 888 1013.250
CalDataZero[Deg] 4831 888 0.000 0.000
Enable RedReference 4831 888 Yes
RedReference Interval 4831 888 1
Mode 4831 888 Smart Sensor Terminal
Enable Sleep 4831 888 Yes

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Enable Polled Mode	4831	888	No	
Enable Text	4831	888	Yes	
Enable Decimalformat	4831	888	Yes	
Analog TempLimit[Deg.C]	4831	888	-5.00	35.00
Analog ConcLimit[uM]	4831	888	0.00	800.00
Analog SatLimit[%]	4831	888	0.00	200.00
Analog PhaseLimit[Deg.]	4831	888	10.00	70.00
Analog Output	4831	888	O2Concentration	
Analog1 Coef	4831	888	0.000000E+00	1.000000E+00
Analog2 Coef	4831	888	0.000000E+00	1.000000E+00
Enable AirSaturation	4831	888	Yes	
Enable Rawdata	4831	888	Yes	
Enable Temperature	4831	888	Yes	
Enable HumidityComp	4831	888	Yes	
Enable SVUformula	4831	888	Yes	
Enable Burn-In Mode	4831	888	No	
Interval[s]	4831	888	30.000	
Location	4831	888		
Geographic Position	4831	888	60.323605,	5.37225
Vertical Position	4831	888		
Reference	4831	888		