



AANDERAA DATA INSTRUMENTS

CALIBRATION CERTIFICATE

Form No 622, Dec 2005
Page 1 of 2Sensing Foil Batch No: 3606
Certificate No: 3830 856 39104Product: Oxygen Optode 3830
Serial No: 856
Calibration Date: 22 January 2007

This is to certify that this product has been calibrated using the following instruments:

ASL Digital Thermometer model F250
Platinum Resistance Thermometer
Calibration Bath model FNT 321-1-40Serial No. 06792/06
Serial No. 2H1072/1

Parameter: Internal Temperature:

Calibration points and readings:

Temperature (°C)	1.14	12.09	24.09	36.06
Reading (mV)	681.03	336.35	-50.78	-407.06

Giving these coefficients

Index	0	1	2	3
TempCoef	2.24833E+01	-3.14385E-02	2.98877E-06	-4.18176E-09

Parameter: Oxygen:

	O ₂ Concentration	Air Saturation
Range:	0-500 µM ¹⁾	0 - 120%
Accuracy ¹⁾	< ±8µM or ±5% (whichever is greater)	±5%
Resolution:	< 1 µM	< 0.4%
Settling Time (63%):	< 25 seconds	

Calibration points and readings²⁾:

	Air Saturated Water	Zero Solution (Na ₂ SO ₄)
Phase reading (°)	2.76551E+01	6.41684E+01
Temperature reading (°C)	1.98601E+01	2.06756E+01
Air Pressure (hPa)	9.68400E+02	

Giving these coefficients

Index	0	1	2	3
PhaseCoef	1.32676E+00	1.09906E+00	0.00000E+00	0.00000E+00

¹⁾ Valid for 0 to 2000m (6562ft) depth, salinity 33 - 37ppt²⁾ The calibration is performed in fresh water and the salinity setting is set to 0

AANDERAA DATA INSTRUMENTS AS



AANDERAA DATA INSTRUMENTS

CALIBRATION CERTIFICATE

Form No 622, Dec 2005
Page 2 of 2

Sensing Foil Batch No: 3606
Certificate No: 3830 856 39104

Product: Oxygen Optode 3830
Serial No: 856
Calibration Date: 22 January 2007

SR10 Scaling Coefficients:

At the SR10 output the Oxygen Optode 3830 can give either absolute oxygen concentration in μM or air saturation in %. The setting of the internal property "Output"³⁾, controls the selection of the unit. The coefficients for converting SR10 raw data to engineering units are fixed.

Output = -1	Output = +2
A = 0	A = 0
B = 4.883E-01	B = 1.465E-01
C = 0	C = 0
D = 0	D = 0
Oxygen (μM) = A + BN + CN2 + DN3	Oxygen (%) = A + BN + CN2 + DN3

³⁾ The default output setting is set to -1

Date: 22 January 2007

Sign:

Tor-Ove Kvalvaag, Calibration Engineer

AANDERAA DATA INSTRUMENTS AS

5851 BERGEN, NORWAY

Tel: +47 55 60 48 00

Fax: +47 55 60 48 01

E-mail: info@aadi.no

Web: <http://www.aadi.no>



AANDERAA DATA INSTRUMENTS

CALIBRATION CERTIFICATE

Form No 621, Dec 2005

Certificate No: 3853_3606_39038
Batch No: 3606

Product: O2 Sensing Foil PSt3 3853
Calibration Date: 19 September 2006

Calibration points and phase readings (degrees)

Temperature (°C)	3.04	10.78	20.35	30.00	39.56
Pressure (hPa)	972.00	972.00	972.00	972.00	972.00
O2 in % of O2/N2	0.00	72.89	72.27	71.36	70.47
	1.00	68.28	67.21	65.74	64.29
	2.00	64.58	63.19	61.34	59.57
	5.00	55.90	54.05	51.72	49.51
	10.00	46.52	44.50	42.07	39.84
	20.90	35.52	33.65	31.50	29.61
	30.00	30.42	28.73	26.82	25.16

Giving these coefficients ¹⁾

Index	0	1	2	3
C0 Coefficient	4.60262E+03	-1.56352E+02	3.11002E+00	-2.63289E-02
C1 Coefficient	-2.56549E+02	7.84126E+00	-1.55660E-01	1.32344E-03
C2 Coefficient	5.79714E+00	-1.58265E-01	3.17570E-03	-2.71486E-05
C3 Coefficient	-6.10916E-02	1.48660E-03	-3.05830E-05	2.62173E-07
C4 Coefficient	2.46453E-04	-5.32422E-06	1.13945E-07	-9.73074E-10

¹⁾ Ask for Form No 621S when this O2 Sensing Foil is used in Oxygen Sensor 3830 with Serial Numbers lower than 184.

Date: 1/23/2007

Sign:

Tor-Ove Kvalvaag

Tor-Ove Kvalvaag, Calibration Engineer

AANDERAA DATA INSTRUMENTS AS

5851 BERGEN, NORWAY

Tel: +47 55 60 48 00

Fax: +47 55 60 48 01

E-mail: info@aadi.no

Web: http://www.aadi.no