

Sensing Foil Batch No: 2204
Certificate No: 3835 23 38258**Product:** Oxygen Optode 3835
Serial No: 23
Calibration Date: 28 Sep 2004

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

ASL Digital Thermometer model F25 Serial No. 1103-14
Platinum Resistance Thermometer Serial No. SV1915/D
Calibration Bath model FNT 321-1-40**Parameter: Internal Temperature:****Calibration points and readings:**

Temperature (°C)	1.09	12.05	24.06	36.04
Reading (mV)	615.42	252.90	-145.37	-502.75

Giving these coefficients

Index	0	1	2	3
TempCoef	1.95879E+01	-3.02641E-02	2.84458E-06	-4.07642E-09

Parameter: Oxygen:

	O2 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 ₃)
Phase reading (°)	2.60421E+01	6.21892E+01
Temperature reading (°C)	2.08472E+01	2.14431E+01
Air Pressure (hPa)	1.00368E+03	

Giving these coefficients

Index	0	1	2	3
PhaseCoef	-3.54970E+00	1.18296E+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:

Sensing Foil Batch No: 2204
Certificate No: 3835 23 38258

Product: Oxygen Optode 3835
Serial No: 23
Calibration Date: 28 Sep 2004

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: 07 Aug 2006

Sign:



Tor-Ove Kvalvaag, Calibration Engineer

AANDERAA DATA INSTRUMENTS AS