

Certificate no: Oxygen Optode 4831_344_135866
FoilID: 1206EM

Product: **Oxygen Optode 4831**
Serial no: 344
Calibration date: 23.10.2017

2-POINT RECALIBRATION, MULTIPOINT CALIBRATED OXYGEN OPTODE

This is to certify that this product has been calibrated and verified using the following reference equipment:

Reference Equipment	Serial
Calibration Bath Model Toho TM-005-P-A	12-K
Fluke 5615 PRT	Serial No. 802054 and Serial No. 849155
Fluke CHUB E-4	Serial No. A7C677
Reference sensor 4330	338

Specification

	O2 Concentration	Air Saturation	Temperature
Range	0-500 μ M	0 - 120%	-5 to +40°C
Accuracy	< $\pm 3\mu$ M or $\pm 2\%$ ¹⁾	$\pm 2\%$ ²⁾	$\pm 0.03^\circ$ C ³⁾
Resolution	< 1 μ M	< 0.4%	0.01°C
Settling Time (63%)	< 25 seconds	< 25 seconds	< 2 seconds

1) Requires salinity compensation for salinity variations > 1mS/cm, and pressure compensation for pressure > 100meter

2) Within calibrated range 0 - 120% / 0 - 30°C

3) Within calibrated range 0 - 36°C for standard version and 0 - 30°C for multipoint version

Calibration points and readings:

	Air Saturated Water	Zero Solution (Na2SO3)
Phase reading (°)	33.62	60.62
Temperature reading (°C)	10.05	21.68
Air Pressure (hPa)	988.00	

Giving these coefficients

Index	0 (Offset)	1 (Slope)
ConcCoef	-7.468518E+00	1.193554E+00

With following settings

Index	0	1	2	3	4	5	6
SVUFoilCoef	3.24994E-03	1.39288E-04	2.60191E-06	2.33482E+02	-3.15160E-01	-5.80011E+01	4.52792E+00
PhaseCoef	0.000000E+00	1.000000E+00	0.000000E+00	0.000000E+00			
TempCoef	2.814841E+01	-3.260898E-02	3.514684E-06	-4.887362E-09	0.000000E+00	0.000000E+00	
Salinity (mS/cm)	0.00						

Date:23.10.2017



Sr. Repair Technician