

Certificate no: Oxygen Optode 4831_125_207878
FoilID: 1206EM

Product: **Oxygen Optode 4831**
Serial no: 125
Calibration date: 18.11.2022

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 µM	0 - 120%	-5 to +40°C
Accuracy	< ±3µM or ±2% ¹⁾	±2% ²⁾	±0.03°C ³⁾
Resolution	< 1 µM	< 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 (°)	33.48	60.80
Temperature reading (°C)	10.05	20.54
Air Pressure (hPa)	1003.93	

Giving these coefficients

Index	0 (Offset)	1 (Slope)
ConcCoef	-3.340763E+00	1.039541E+00

With following settings

Index	0	1	2	3	4	5	6
SVUFoilCoef	2.62495E-03	1.15814E-04	2.13806E-06	1.88450E+02	-2.18191E-01	-4.20055E+01	3.71697E+00
PhaseCoef	-9.209998E-01	1.000000E+00	0.000000E+00	0.000000E+00			
TempCoef	2.594444E+01	-3.149119E-02	3.079876E-06	-4.494536E-09	0.000000E+00	0.000000E+00	
Salinity (mS/cm)	0.00						
Firmware Version	5.3.1						

Date:18.11.2022


Sr. Repair Technician