

Certificate no: Oxygen Optode 4831_137_189567
FoilID: 1206EM

Product: Oxygen Optode 4831
Serial no: 137
Calibration date: 26.10.2021

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 (°)	33.69	61.64
Temperature reading (°C)	10.02	23.12
Air Pressure (hPa)	968.50	

Giving these coefficients

Index	0 (Offset)	1 (Slope)
ConcCoef	-6.688092E-01	1.011534E+00

With following settings

Index	0	1	2	3	4	5	6
SVUFoilCoef	2.73735E-03	1.19387E-04	2.31098E-06	1.93909E+02	-2.23624E-01	-4.95334E+01	3.85171E+00
PhaseCoef	0.000000E+00	1.000000E+00	0.000000E+00	0.000000E+00			
TempCoef	2.896470E+01	-3.202781E-02	3.617544E-06	-4.940488E-09	0.000000E+00	0.000000E+00	
Salinity (mS/cm)	0.00						
Firmware Version	5.3.1						

Date:26.10.2021


Sr. Repair Technician