

Certificate no: Oxygen Optode 4831_953_203751
FoilID: 1824M

Product: **Oxygen Optode 4831**
Serial no: 953
Calibration date: 07.09.2022

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

	O ₂ 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
Setting 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	Zéro Solution (Na ₂ SO ₃)
Phase reading (°)	33.29	59.37
Temperature reading (°C)	9.98	23.07
Air Pressure (hPa)	1008.00	

Giving these coefficients

Index	0 (Offset)	1 (Slope)
ConcCoef	-4.690395E+00	1.084360E+00

With following settings

Index	0	1	2	3	4	5	6
SVU FoilCoef	2.75315E-03	1.14616E-04	2.38177E-06	1.64960E+02	-2.27877E-01	-3.70800E+01	3.30433E+00
PhaseCoef	-1.174000E+00	1.000000E+00	0.000000E+00	0.000000E+00			
TempCoef	2.936454E+01	-3.160334E-02	3.598815E-06	-5.012885E-09	0.000000E+00	0.000000E+00	
Salinity (mS/cm)	0.00						
Firmware Version	5.3.1						

Date:07.09.2022


Sr. Repair Technician