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CALIBRATION CERTIFICATE
Form No 854, May 5th 2020

Certificate no: Oxygen Optode 4831_474_207867
FoilID: 1206EM

Product: **Oxygen Optode 4831**
Serial no: **474**
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 (°)	33.98	60.61
Temperature reading (°C)	10.08	20.06
Air Pressure (hPa)	1010.82	

Giving these coefficients

Index	0 (Offset)	1 (Slope)
ConcCoef	-1.657221E+00	1.044688E+00

With following settings

Index	0	1	2	3	4	5	6
SVUFoilCoef	2.55647E-03	1.06623E-04	2.27510E-06	2.02954E+02	-2.61210E-01	-5.21914E+01	4.09460E+00
PhaseCoef	0.000000E+00	1.000000E+00	0.000000E+00	0.000000E+00			
TempCoef	2.241054E+01	-3.097322E-02	2.815089E-06	-4.104700E-09	0.000000E+00	0.000000E+00	
Salinity (mS/cm)	0.00						
Firmware Version	5.3.1						

Date:18.11.2022

Sr. Repair Technician