

CALIBRATION CERTIFICATE

Form No 854, Dec 16th 2016

Certificate no: Oxygen Optode 4831_474_151494

FoilID: 1206EM

Product: Oxygen Optode 4831

Serial no: 474

Calibration date: 10.09.2018

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	339		

Specification

	O2 Concentration	Air Saturation	Temperature	
Range	0-500 μΜ	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

Calibration points and readings:

	Air Saturated Water	Zero Solution (Na2SO3)
Phase reading (°)	33.70	60.94
Temperature reading (°C)	9.94	21.36
Air Pressure (hPa)	989.70	

Giving these coefficients

Index	0 (Offset)	1 (Slope)	
ConcCoef	-4.276638E+00	1.091057E+00	

With following settings

Index	0	1	2	3	4	5	6
SVUFoilCoef	2.92378E-03	1.24239E-04	2.47052E-06	2.30822E+02	-3.24023E-01	-5.85121E+01	4.54013E+00
PhaseCoef	0.000000E+00	1.000000E+00	0.000000E+00	0.000000E+00			
TempCoef	2.242253E+01	-3.097566E-02	2.828507E-06	-4.132616E-09	0.000000E+00	0.000000E+00	
Salinity (mS/cm)	0.00						

Date:10.09.2018

Sr. Repair Technician

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