

# **CALIBRATION CERTIFICATE**

Form No 854, May 5th 2020

Certificate no: Oxygen Optode 4831\_311\_232786

FoilID:

1517M

Product:

Oxygen Optode 4831

Serial no: Calibration date: 311

13.11.2024

## 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**

Design the second	O2 Concentration	Air Saturation	Temperature -5 to +40°C	
Range	0-500 μΜ	0 - 120%		
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	

<sup>1)</sup> Requires salinity compensation for salinity variations > 1mS/cm, and pressure compensation for pressure > 100meter

### Calibration points and readings:

	Air Saturated Water	Zero Solution (Na2SO3) 59.82 20.13		
Phase reading (°)	34.43			
Temperature reading (°C)	10.10			
Air Pressure (hPa)	974.40			

#### Giving these coefficients

Index	0 (Offset)	1 (Slope)
ConcCoef	-3.213614E+00	1.068723E+00

### With following settings

Index	0	1	2	3	4	5	6
SVUFoilCoef	2.51295E-03	1.05592E-04	2.21068E-06	2.01172E+02	-2.68715E-01	-5.00969E+01	4.05617E+00
PhaseCoef	0.000000E+00	1.000000E+00	0.000000E+00	0.000000E+00			
TempCoef	2.925786E+01	-3.218876E-02	3.646591E-06	-5.017700E-09	0.000000E+00	0.000000E+00	
Salinity (mS/cm)	0.00						
Firmware Version	5.3.1						

Date:13.11.2024

<sup>2)</sup> 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