

# **CALIBRATION CERTIFICATE**

Form No 854, Dec 16th 2016

a xylem brand

Certificate no: Oxygen Optode 4831\_459\_127804

FoilID:

1206EM

Product:

Oxygen Optode 4831

Serial no:

459

Calibration date:

01.03.2017

## 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 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	

<sup>1)</sup> 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) 61.44		
Phase reading (°)	33.17			
Temperature reading (°C)	9.99	21.77		
Air Pressure (hPa)	989.00			

## Giving these coefficients

Index	0 (Offset)	1 (Slope)		
ConcCoef	-8.239678E-01	1.047894E+00		

#### With following settings

Index	0	1. 1	2	3	4	5	6
SVUFoilCoef	2.87587E-03	1.23384E-04	2.32632E-06	2.31519E+02	-3.67650E-01	-5.69761E+01	4.54623E+00
PhaseCoef	0.000000E+00	1.000000E+00	0.000000E+00	0.000000E+00		S as II, the transaction	
TempCoef	2.076079E+01	-3.140368E-02	2.913928E-06	-4.164610E-09	0.000000E+00	0.000000E+00	
Salinity (mS/cm)	0.00						

Date:01.03.2017