



a xylem brand

CALIBRATION CERTIFICATE

Form No 854, Dec 16th 2016

Certificate no: Oxygen Optode 4831_458_127876
FoilID: 1206EM

Product: Oxygen Optode 4831
Serial no: 458
Calibration date: 02.03.2017

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 μ M	0 - 120%	-5 to +40°C
Accuracy	< $\pm 3\mu$ M or $\pm 2\%$ ¹⁾	$\pm 2\%$ ²⁾	$\pm 0.03^\circ\text{C}$ ³⁾
Resolution	< 1 μ M	< 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 (°)	33.59	61.84
Temperature reading (°C)	9.96	20.87
Air Pressure (hPa)	984.00	

Giving these coefficients

Index	0 (Offset)	1 (Slope)
ConcCoef	-1.770920E+00	1.060635E+00

With following settings

Index	0	1	2	3	4	5	6
SVUFoilCoef	2.91053E-03	1.24181E-04	2.44994E-06	2.31388E+02	-3.23271E-01	-5.82643E+01	4.53565E+00
PhaseCoef	0.000000E+00	1.000000E+00	0.000000E+00	0.000000E+00			
TempCoef	2.704706E+01	-3.173843E-02	3.303220E-06	-4.708150E-09	0.000000E+00	0.000000E+00	
Salinity (mS/cm)	0.00						

Date:02.03.2017


Sr. Repair Technician