



a xylem brand

# CALIBRATION CERTIFICATE

Form No 857, May 5th 2020

Certificate no: Oxygen Optode 4831\_829\_218620  
FoilID: 1824

Product: Oxygen Optode 4831  
Serial no: 829  
Calibration date: 06.09.2023

## 2-POINT RECALIBRATION, 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 $\mu$ M	0 - 120%	-5 to +40°C
Accuracy	< $\pm 8 \mu$ M or $\pm 5\%$ 1)	$\pm 5\%$ 2)	$\pm 0.03^\circ\text{C}$ 3)
Resolution	< 1 $\mu$ 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 (°)	33.13	59.34
Temperature reading (°C)	10.11	23.47
Air Pressure (hPa)	971.91	

## Giving these coefficients

Index	0 (Offset)	1 (Slope)
ConcCoef	-1.118029E+00	1.038293E+00

## With following settings

Index	0	1	2	3	4	5	6
SVUFoilCoef	2.63402E-03	1.14614E-04	2.24919E-06	1.69578E+02	-2.04107E-01	-3.48030E+01	3.47639E+00
PhaseCoef	-2.262000E+00	1.000000E+00	0.000000E+00	0.000000E+00			
TempCoef	2.238886E+01	-3.044172E-02	2.760809E-06	-4.117624E-09	0.000000E+00	0.000000E+00	
Salinity (mS/cm)	0.00						
Firmware Version	5.3.1						

Date:06.09.2023

  
Sr. Repair Technician