

CALIBRATION CERTIFICATE

Form No 853, Feb.6.2017

a xylem brand

Certificate no: Oxygen Optode 3835_1771_128703

FoilID:

1023

Product: Serial no: Oxygen Optode 3835

1771

Calibration date: 22.03.2017

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

1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1	O2 Concentration	Air Saturation	Temperature
Range	0-500 μΜ	0 - 120%	-5 to +40°C
Accuracy	< ±8µM or ±5% 1)	±5% 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 2) Within calibrated range 0 - 120% / 0 - 30°C 3) Within calibrated range 0 - 36°C

Calibration points and readings:

可以的现在分词	Air Salurated Water	Zero Solution (Na2SO3)
Phase reading (")	31.87	64.01
Temperature reading (°C)	10.00	22.63
Air Pressure (hPa)	986.40	

Giving these coefficients

Index	0	1 2 3	2	3
PhaseCoef	-3.757049E+00	1.184100E+00	0.000000E+00	0.000000E+00

With the following settings

Index	0	1, 1	2	3
Coef0	4.270190E+03	-1.327240E+02	2.156300E+00	-1.402760E-02
Coef1	-2.297299E+02	5.742419E+00	-6.853580E-02	1.886120E-04
Coef2	5.064020E+00	-9.620850E-02	5.221810E-04	7.708902E-06
Coef3	-5.263319E-02	7.154669E-04	3.311850E-06	-1.861240E-07
Coef4	2.109169E-04	-1.840879E-06	-4.286460E-08	1.111200E-09
TempCoef	2.790461E+01	-3.138950E-02	3.051687E-06	-4.513907E-09
Salinity (mS/cm)	0.00	22		

Date:22.03.2017



CALIBRATION CERTIFICATE

Form No 853, Feb.6.2017

a xylem brand

Certificate no: Oxygen Optode 3830_1128_128701

FoilID:

Product:

Oxygen Optode 3830

Serial no: Calibration date: 1128

22.03.2017

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 PR打	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 µM	0 - 120%	-5 to +40°C	
Accuracy	< ±8µM or ±5% 1)	±5% 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 2) Within calibrated range 0 - 120% / 0 - 30°C 3) Within calibrated range 0 - 36°C

Calibration points and readings:

	Air Saturated Water	Zero Solution (Na2SO3)
Phase reading (°)	33.92	65.40
Temperature reading (°C)	9.99	22.66
Air Pressure (hPa)	986.40	

Giving these coefficients

Index	0	1	2	3
PhaseCoef	-2.656845E+00	1.157328E+00	0.000000E+00	0.000000E+00

With the following settings

Index	0 2	20,152,152	2	3.
Coef0	5.276020E+03	-1.783356E+02	3.603367E+00	-3.172573E-02
Coef1	-2.835152E+02	8.539261E+00	-1.707122E-01	1.519272E-03
Coef2	6.146133E+00	-1.629492E-01	3.255790E-03	-2.941464E-05
Coef3	-6.200037E-02	1.436286E-03	-2.908785E-05	2.671883E-07
Coef4	2.392831E-04	-4.792503E-06	1.000596E-07	-9.331836E-10
TempCoef	2.478123E+01	-3.131412E-02	2.957635E-06	-4.304316E-09
Salinity (mS/cm)	0.00			

Date:22.03.2017



CALIBRATION CERTIFICATE

Form No 853, Feb.6.2017

a xylem brand

FoilID:

Certificate no: Oxygen Optode 3835_726_128702

4807

Product:

Oxygen Optode 3835

Serial no: 726

Calibration date:

22.03.2017

2-POINT RECALIBRATION, OXYGEN OPTODE

This is to certify that this product has been calibrated and verified using the following reference equipment:

Reference Equipment	Senal
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

2 000年 4000年	O2 Concentration	Air Saturation	Temperature
Range	0-500 μΜ	0 - 120%	-5 to +40°C
Accuracy	< ±8µM or ±5% 1)	±5% 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 (*)	33.69	63.92
Temperature reading (°C)	9.98	22.54
Air Pressure (hPa)	986.40	

Giving these coefficients

Index	0	1	2	3
PhaseCoef	-4.035827E+00	1.206031E+00	0.000000E+00	0.000000E+00

With the following settings

Index	0	1996	2	3
Coef0	5.276020E+03	-1.783355E+02	3.603367E+00	-3.172573E-02
Coef1	-2.835151E+02	8.539261E+00	-1.707121E-01	1.519272E-03
Coef2	6.146133E+00	-1.629492E-01	3.255790E-03	-2.941463E-05
Coef3	-6.200037E-02	1.436285E-03	-2.908786E-05	2.671883E-07
Coef4	2.392831E-04	-4.792503E-06	1.000597E-07	-9.331836E-10
TempCoef	2.685690E+01	-3.163586E-02	3.022679E-06	-4.382699E-09
Salinity (mS/cm)	0.00			

Date:22.03.2017

²⁾ Within calibrated range 0 - 120% / 0 - 30°C 3) Within calibrated range 0 - 36°C