# CALIBRATION CERTIFICATE

Certificate no: 4831_316_00179322
Foil batch no: 1206EM

Product: 4831
Calibration date: 20.11.2020

Serial no: 316

| Index | Temperature reference(°C) | [O2] Reference(µM) | Temperature raw data(mV) | Phase reading(°) |
|---|---|---|---|---|
| 0 | 30.240 | 1.67 | -131.980 | 58.66 |
| 1 | 20.188 | 1.03 | 190.420 | 59.70 |
| 2 | 10.228 | 0.79 | 513.080 | 60.51 |
| 3 | 0.895 | 0.53 | 795.167 | 61.17 |
| 4 | 1.160 | 19.76 | 787.607 | 58.82 |
| 5 | 1.259 | 41.83 | 784.773 | 56.37 |
| 6 | 1.355 | 62.85 | 782.033 | 54.28 |
| 7 | 1.436 | 102.60 | 779.693 | 50.79 |
| 8 | 1.506 | 142.11 | 777.713 | 47.84 |
| 9 | 1.561 | 208.37 | 776.127 | 43.77 |
| 10 | 1.601 | 303.79 | 774.980 | 39.32 |
| 11 | 1.617 | 408.07 | 774.540 | 35.71 |
| 12 | 1.624 | 504.58 | 774.333 | 33.13 |
| 13 | 10.746 | 14.92 | 496.660 | 57.92 |
| 14 | 10.651 | 33.01 | 499.660 | 55.11 |
| 15 | 10.582 | 48.96 | 501.867 | 52.94 |
| 16 | 10.529 | 82.14 | 503.580 | 49.03 |
| 17 | 10.488 | 114.85 | 504.860 | 45.85 |
| 18 | 10.449 | 165.00 | 506.073 | 41.91 |
| 19 | 10.426 | 247.11 | 506.807 | 37.13 |
| 20 | 10.412 | 324.95 | 507.260 | 33.84 |
| 21 | 10.402 | 405.72 | 507.593 | 31.24 |
| 22 | 20.573 | 11.94 | 177.913 | 56.91 |
| 23 | 20.489 | 26.49 | 180.627 | 53.79 |
| 24 | 20.432 | 40.31 | 182.493 | 51.22 |
| 25 | 20.384 | 66.67 | 184.073 | 47.09 |
| 26 | 20.339 | 94.03 | 185.533 | 43.64 |
| 27 | 20.299 | 133.87 | 186.833 | 39.68 |
| 28 | 20.266 | 199.00 | 187.893 | 34.99 |
| 29 | 20.217 | 264.22 | 189.487 | 31.69 |
| 30 | 20.194 | 331.91 | 190.247 | 29.14 |
| 31 | 30.209 | 10.12 | -131.000 | 55.84 |
| 32 | 30.193 | 22.26 | -130.507 | 52.39 |
| 33 | 30.195 | 33.14 | -130.587 | 49.75 |
| 34 | 30.200 | 55.19 | -130.713 | 45.31 |
| 35 | 30.218 | 76.86 | -131.260 | 41.87 |
| 36 | 30.234 | 108.77 | -131.760 | 37.91 |
| 37 | 30.247 | 163.09 | -132.200 | 33.14 |
| 38 | 30.258 | 219.40 | -132.520 | 29.80 |
| 39 | 30.266 | 274.22 | -132.760 | 27.46 |

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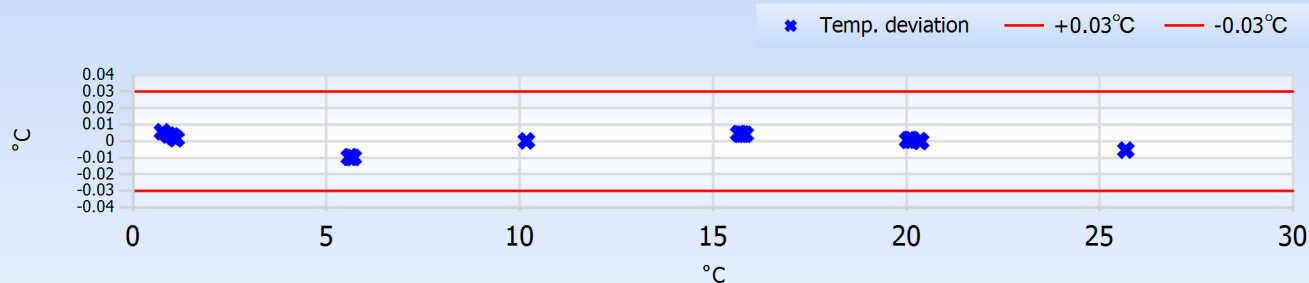Calibration date: 20.11.2020

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## Giving these coefficients

| Index | 0 | 1 | 2 | 3 | 4 | 5 | 6 |
|---|---|---|---|---|---|---|---|
| SVUFoilCoef | 2.49577E-03 | 1.05661E-04 | 2.14466E-06 | 1.86155E02 | -2.66001E-01 | -4.67193E01 | 3.79640E00 |
| TempCoef | 2.60567E01 | -3.12257E-02 | 3.00601E-06 | -4.43340E-09 | 0.00000E00 | 0.00000E00 | |

### Oxygen validation
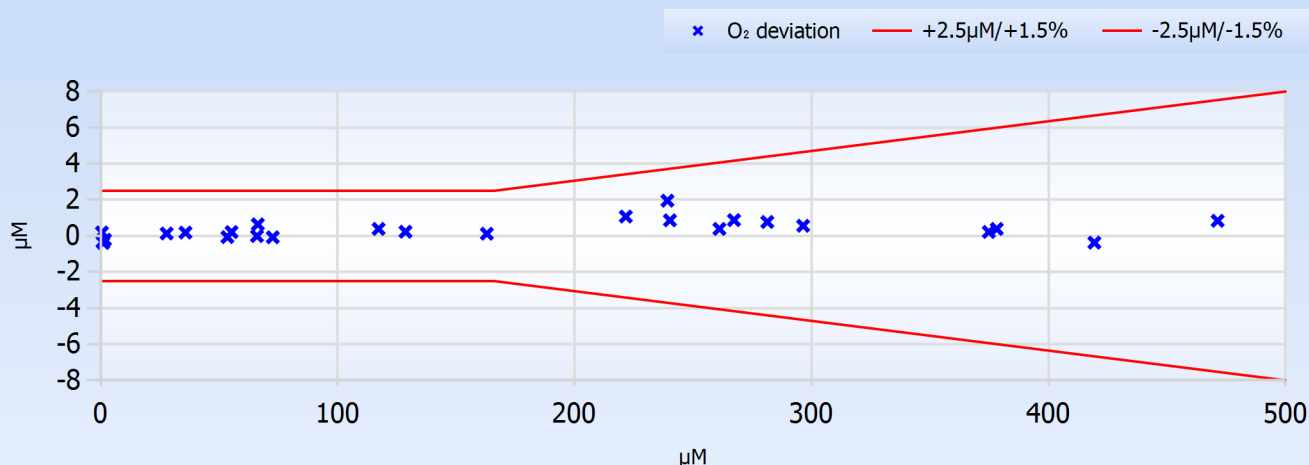


### Temperature validation



## With following settings

| Index | 0 | 1 | 2 | 3 |
|---|---|---|---|---|
| PhaseCoef | 0.00000E00 | 1.00000E00 | 0.00000E00 | 0.00000E00 |

| Index | 0 (Offset) | 1 (Slope) |
|---|---|---|
| ConcCoef | 0.00000E00 | 1.00000E00 |
| Salinity | 0.00 | |

| | |
|---|---|
| Firmware Version | 4.9.1 |

Date:20.11.2020

Tor-Ove Kvalvaag, Calibration Engineer