



Sea-Bird Scientific
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SENSOR SERIAL NUMBER: 3200
CALIBRATION DATE: 26-Feb-25

SBE 43 OXYGEN CALIBRATION DATA

COEFFICIENTS:
Soc = 0.4954
Voffset = -0.5073
Tau20 = 1.22
A = -2.8453e-03
B = 1.2844e-04
C = -2.3904e-06
E nominal = 0.036

NOMINAL DYNAMIC COEFFICIENTS
D1 = 1.92634e-4
D2 = -4.64803e-2
H1 = -3.300000e-2
H2 = 5.00000e+3
H3 = 1.45000e+3

| BATH OXYGEN (ml/l) | BATH TEMPERATURE (° C) | BATH SALINITY (PSU) | INSTRUMENT OUTPUT (volts) | INSTRUMENT OXYGEN (ml/l) | RESIDUAL (ml/l) |
|-----------------------|---------------------------|------------------------|------------------------------|-----------------------------|--------------------|
| 1.13 | 2.13 | 0.00 | 0.744 | 1.12 | -0.00 |
| 1.13 | 6.00 | 0.00 | 0.772 | 1.13 | -0.00 |
| 1.13 | 20.00 | 0.00 | 0.875 | 1.13 | -0.00 |
| 1.13 | 12.00 | 0.00 | 0.816 | 1.13 | -0.00 |
| 1.14 | 26.00 | 0.00 | 0.925 | 1.14 | 0.00 |
| 1.14 | 30.00 | 0.00 | 0.960 | 1.15 | 0.00 |
| 3.87 | 20.00 | 0.00 | 1.768 | 3.87 | 0.00 |
| 3.87 | 26.00 | 0.00 | 1.927 | 3.88 | 0.00 |
| 3.88 | 2.09 | 0.00 | 1.322 | 3.88 | 0.00 |
| 3.88 | 6.00 | 0.00 | 1.419 | 3.88 | 0.00 |
| 3.88 | 12.00 | 0.00 | 1.567 | 3.88 | -0.00 |
| 3.88 | 30.00 | 0.00 | 2.042 | 3.88 | 0.00 |
| 6.63 | 2.07 | 0.00 | 1.899 | 6.62 | -0.00 |
| 6.64 | 6.00 | 0.00 | 2.068 | 6.65 | 0.00 |
| 6.66 | 12.00 | 0.00 | 2.326 | 6.66 | -0.00 |
| 6.69 | 30.00 | 0.00 | 3.150 | 6.69 | -0.00 |
| 6.71 | 20.00 | 0.00 | 2.689 | 6.71 | -0.00 |
| 6.73 | 26.00 | 0.00 | 2.973 | 6.73 | 0.00 |

V = instrument output (volts); T = temperature (°C); S = salinity (PSU); K = temperature (°K)

Oxsol(T,S) = oxygen saturation (ml/l); P = pressure (dbar)

Oxygen (ml/l) = Soc * (V + Voffset) * (1.0 + A * T + B * T² + C * T³) * Oxsol(T,S) * exp(E * P / K)

Residual (ml/l) = instrument oxygen - bath oxygen

