

Sea-Bird Electronics, Inc.

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SENSOR SERIAL NUMBER: 3200
CALIBRATION DATE: 19-Jan-17

SBE 43 OXYGEN CALIBRATION DATA

COEFFICIENTS:

Soc = 0.5824

Voffset = -0.5113

Tau20 = 1.20

A = -3.5205e-003

B = 1.1594e-004

C = -1.3948e-006

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)
1.16	12.00	0.00	0.782	1.16	-0.00
1.16	6.00	0.00	0.743	1.16	-0.00
1.16	2.00	0.00	0.719	1.16	-0.00
1.17	20.00	0.00	0.838	1.17	-0.00
1.20	26.00	0.00	0.889	1.20	0.00
1.21	30.00	0.00	0.920	1.21	0.00
3.92	12.00	0.00	1.431	3.93	0.00
3.94	20.00	0.00	1.615	3.94	0.01
3.94	2.00	0.00	1.216	3.94	0.00
3.96	6.00	0.00	1.307	3.96	0.00
3.98	26.00	0.00	1.760	3.97	-0.00
3.98	30.00	0.00	1.855	3.98	0.00
6.71	2.00	0.00	1.709	6.71	0.00
6.74	6.00	0.00	1.862	6.73	-0.00
6.75	12.00	0.00	2.092	6.75	-0.00
6.79	30.00	0.00	2.806	6.79	0.00
6.84	26.00	0.00	2.658	6.83	-0.00
6.85	20.00	0.00	2.426	6.84	-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

