

Sea-Bird Electronics, Inc.

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SENSOR SERIAL NUMBER: 3522
CALIBRATION DATE: 07-Mar-17

SBE 43F OXYGEN CALIBRATION DATA

COEFFICIENTS:

Soc = 3.0487e-004 (adj)

Foffset = -814.11

Tau20 = 1.31

A = -4.3322e-003

B = 2.1723e-004

C = -3.1952e-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 OX (ml/l)	BATH TEMP (° C)	BATH SAL (PSU)	INSTRUMENT OUTPUT (Hz)	INSTRUMENT OXYGEN (ml/l)	RESIDUAL (ml/l)
1.12	12.00	0.00	1366.661	1.12	-0.00
1.13	6.00	0.00	1292.974	1.13	-0.00
1.13	2.00	0.00	1241.296	1.13	-0.00
1.15	20.00	0.00	1488.570	1.15	-0.00
1.18	26.00	0.00	1582.169	1.17	-0.00
1.19	30.00	0.00	1646.663	1.19	0.00
3.85	2.00	0.00	2272.114	3.86	0.00
3.86	12.00	0.00	2724.508	3.87	0.00
3.87	6.00	0.00	2457.478	3.87	0.00
3.92	20.00	0.00	3110.798	3.92	-0.00
3.95	26.00	0.00	3398.055	3.95	-0.00
4.00	30.00	0.00	3617.841	4.00	0.00
6.62	6.00	0.00	3625.450	6.62	-0.00
6.64	2.00	0.00	3324.630	6.64	-0.00
6.64	12.00	0.00	4097.198	6.64	-0.00
6.75	26.00	0.00	5222.543	6.74	-0.00
6.76	30.00	0.00	5554.432	6.76	-0.00
6.77	20.00	0.00	4776.753	6.77	0.00

F = instrument output (Hz); T = temperature (°C); S = salinity (PSU); K = temperature (°K)

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

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

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

