

Sea-Bird Electronics, Inc.

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SENSOR SERIAL NUMBER: 3327
CALIBRATION DATE: 19-Feb-16

SBE 43F OXYGEN CALIBRATION DATA

COEFFICIENTS:
Soc = 3.2148e-004
Foffset = -846.10
Tau20 = 1.18

A = -3.4629e-003
B = 1.4972e-004
C = -2.5697e-006
E nominal = 0.036

NOMINAL DYNAMIC COEFFICIENTS
D1 = 1.92634e-4 H1 = -3.300000e-2
D2 = -4.64803e-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)
1.16	2.00	0.00	1219.629	1.15	-0.00
1.16	12.00	0.00	1335.120	1.16	0.00
1.17	20.00	0.00	1436.340	1.17	0.00
1.20	30.00	0.00	1582.455	1.20	0.00
1.20	26.00	0.00	1529.288	1.20	0.00
1.21	6.00	0.00	1284.236	1.21	-0.00
3.92	6.00	0.00	2270.110	3.92	0.00
3.93	2.00	0.00	2118.679	3.93	0.00
3.95	26.00	0.00	3088.489	3.95	0.00
3.96	20.00	0.00	2836.564	3.95	-0.01
3.96	12.00	0.00	2520.800	3.96	-0.00
3.99	30.00	0.00	3286.380	3.99	-0.00
6.71	6.00	0.00	3281.622	6.71	0.00
6.73	2.00	0.00	3020.958	6.72	-0.00
6.73	12.00	0.00	3691.229	6.73	0.00
6.73	20.00	0.00	4235.972	6.73	-0.01
6.77	30.00	0.00	4987.532	6.77	-0.00
6.79	26.00	0.00	4701.653	6.80	0.01

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

