

Sea-Bird Electronics, Inc.

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SENSOR SERIAL NUMBER: 1266
CALIBRATION DATE: 01-Feb-12

SBE 43 OXYGEN CALIBRATION DATA

COEFFICIENTS

Soc = 0.5110

Voffset = -0.5418

Tau20 = 1.13

A = -3.0146e-003

B = 1.3378e-004

C = -2.6688e-006

E nominal = 0.036

NOMINAL DYNAMIC COEFFICIENTS

D1 = 1.92634e-4 H1 = -3.30000e-2

D2 = -4.64803e-2 H2 = 5.00000e+3

H3 = 1.45000e+3

BATH OX (ml/l)	BATH TEMP ITS-90	BATH SAL PSU	INSTRUMENT OUTPUT(VOLTS)	INSTRUMENT OXYGEN(ml/l)	RESIDUAL (ml/l)
1.21	2.00	0.04	0.786	1.20	-0.00
1.24	6.00	0.04	0.824	1.24	-0.00
1.24	12.00	0.04	0.872	1.25	0.00
1.25	20.00	0.04	0.940	1.26	0.00
1.26	26.00	0.04	0.992	1.26	0.01
1.26	30.00	0.04	1.029	1.26	0.01
4.10	2.00	0.04	1.374	4.09	-0.01
4.14	20.00	0.04	1.854	4.15	0.00
4.15	26.00	0.04	2.027	4.16	0.00
4.15	6.00	0.04	1.487	4.15	-0.01
4.16	12.00	0.04	1.646	4.16	0.00
4.16	30.00	0.05	2.150	4.16	0.00
6.64	12.00	0.04	2.303	6.64	-0.00
6.66	26.00	0.04	2.919	6.65	-0.00
6.67	30.00	0.05	3.118	6.67	-0.00
6.67	20.00	0.04	2.652	6.67	-0.00
6.79	6.00	0.04	2.089	6.79	0.00
6.86	2.00	0.04	1.938	6.87	0.01

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

V = voltage output from SBE43, T = temperature [deg C], S = salinity [PSU] K = temperature [deg K]

OxSol(T,S) = oxygen saturation [ml/l], P = pressure [dbar], Residual = instrument oxygen - bath oxygen

Date, Delta Ox (ml/l)

