

SEA-BIRD ELECTRONICS, INC.

1808 136th Place N.E., Bellevue, Washington, 98005 USA

Phone: (425) 643 - 9866 Fax (425) 643 - 9954 Email: seabird@seabird.com

SENSOR SERIAL NUMBER: 1568
CALIBRATION DATE: 04-Sep-08

SBE4 CONDUCTIVITY CALIBRATION DATA
PSS 1978: C(35,15,0) = 4.2914 Siemens/meter

GHIJ COEFFICIENTS

g = -4.00497451e+000
h = 5.18967286e-001
i = -1.52809511e-004
j = 3.15231294e-005
CPcor = -9.5700e-008 (nominal)
CTcor = 3.2500e-006 (nominal)

ABCDM COEFFICIENTS

a = 1.02228684e-005
b = 5.18524023e-001
c = -4.00377279e+000
d = -8.45784020e-005
m = 4.3
CPcor = -9.5700e-008 (nominal)

BATH TEMP (ITS-90)	BATH SAL (PSU)	BATH COND (Siemens/m)	INST FREQ (kHz)	INST COND (Siemens/m)	RESIDUAL (Siemens/m)
0.0000	0.0000	0.00000	2.77847	0.00000	0.00000
-1.0001	34.8886	2.80985	7.85948	2.80985	0.00000
0.9999	34.8892	2.98159	8.06643	2.98160	0.00000
14.9999	34.8902	4.27971	9.48402	4.27970	-0.00001
18.4999	34.8904	4.62713	9.82828	4.62710	-0.00002
29.0000	34.8868	5.71256	10.83247	5.71264	0.00007
32.4999	34.8795	6.08575	11.15630	6.08570	-0.00005

Conductivity = $(g + hf^2 + if^3 + jf^4) / 10(1 + \delta t + \epsilon p)$ Siemens/meter

Conductivity = $(af^m + bf^2 + c + dt) / [10(1 + \epsilon p)]$ Siemens/meter

t = temperature[°C]; p = pressure[decibars]; δ = CTcor; ϵ = CPcor;

Residual = (instrument conductivity - bath conductivity) using g, h, i, j coefficients

Date, Slope Correction

