

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: 1387
CALIBRATION DATE: 27-Feb-08

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

GHIJ COEFFICIENTS

g = -4.22417377e+000
h = 4.80932364e-001
i = -6.42876034e-005
j = 2.77553742e-005
CPcor = -9.5700e-008 (nominal)
CTcor = 3.2500e-006 (nominal)

ABCDM COEFFICIENTS

a = 1.82741938e-005
b = 4.80749189e-001
c = -4.22369259e+000
d = -8.52596720e-005
m = 4.1
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	2.96350	0.00000	0.00000
-1.0000	34.9366	2.81336	8.19114	2.81336	-0.00000
1.0000	34.9367	2.98527	8.40521	2.98528	0.00001
15.0000	34.9377	4.28493	9.87237	4.28489	-0.00003
18.5000	34.9373	4.63268	10.22879	4.63272	0.00003
29.0000	34.9359	5.71970	11.26874	5.71969	-0.00001
32.5000	34.9302	6.09360	11.60443	6.09360	0.00000

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

