

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: 1749
CALIBRATION DATE: 17-Jan-08

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

GHIJ COEFFICIENTS

g = -4.22142369e+000
h = 5.33034466e-001
i = -7.19019338e-004
j = 6.33607931e-005
CPcor = -9.5700e-008 (nominal)
CTcor = 3.2500e-006 (nominal)

ABCDM COEFFICIENTS

a = 4.98564669e-007
b = 5.30500264e-001
c = -4.21345237e+000
d = -8.82577384e-005
m = 5.5
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	2.81820	0.00000	0.00000
-1.0000	34.9263	2.81261	7.80297	2.81264	0.00004
1.0166	34.9265	2.98593	8.00881	2.98592	-0.00001
15.0000	34.9265	4.28370	9.40628	4.28360	-0.00010
18.5000	34.9261	4.63136	9.74620	4.63139	0.00003
29.0001	34.9212	5.71757	10.73717	5.71771	0.00014
32.5000	34.9104	6.09054	11.05614	6.09044	-0.00010

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

