

SEA-BIRD ELECTRONICS, INC.

13431 NE 20th Street, Bellevue, Washington, 98005-2010 USA

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

SENSOR SERIAL NUMBER: 1387
CALIBRATION DATE: 20-Feb-10

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

GHIJ COEFFICIENTS

g = -4.22512643e+000
h = 4.81088934e-001
i = -7.45671908e-005
j = 2.83455767e-005
CPcor = -9.5700e-008 (nominal)
CTcor = 3.2500e-006 (nominal)

ABCDM COEFFICIENTS

a = 1.83433926e-005
b = 4.80850080e-001
c = -4.22431119e+000
d = -8.22654354e-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	2.96343	0.00000	0.00000
-1.0000	34.7437	2.79927	8.17254	2.79928	0.00001
0.9999	34.7440	2.97036	8.38601	2.97036	-0.00000
14.9999	34.7444	4.26372	9.84918	4.26369	-0.00002
18.4999	34.7444	4.60985	10.20466	4.60984	-0.00001
28.9999	34.7419	5.69149	11.24181	5.69155	0.00006
32.5000	34.7324	6.06301	11.57602	6.06297	-0.00004

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

