

Sea-Bird Electronics, Inc.

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

Phone: (+1) 425-643-9866 Fax (+1) 425-643-9954 Email: seabird@seabird.com

SENSOR SERIAL NUMBER: 0497
CALIBRATION DATE: 13-Mar-12

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

GHIJ COEFFICIENTS

g = -4.26587159e+000
h = 4.60562053e-001
i = -3.64710338e-004
j = 3.61631413e-005
CPcor = -9.5700e-008 (nominal)
CTcor = 3.2500e-006 (nominal)

ABCDM COEFFICIENTS

a = 1.55171767e-006
b = 4.59241241e-001
c = -4.26095506e+000
d = -8.13131039e-005
m = 4.9
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	3.04597	0.00000	0.00000
-0.9999	34.7866	2.80242	8.37786	2.80241	-0.00000
1.0001	34.7863	2.97365	8.59667	2.97366	0.00001
15.0001	34.7862	4.26832	10.09663	4.26830	-0.00002
18.5001	34.7854	4.61472	10.46099	4.61473	0.00001
29.0001	34.7843	5.69768	11.52444	5.69769	0.00001
32.5001	34.7789	6.07022	11.86770	6.07021	-0.00001

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

