

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: 1387
CALIBRATION DATE: 22-Jun-12

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

GHIJ COEFFICIENTS

g = -1.06546238e+001
h = 1.59529776e+000
i = -7.39061063e-004
j = 1.44604090e-004
CPcor = -9.5700e-008 (nominal)
CTcor = 3.2500e-006 (nominal)

ABCDM COEFFICIENTS

a = 2.10918116e-005
b = 1.59373815e+000
c = -1.06522018e+001
d = -8.49804435e-005
m = 4.6
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	2.58510	0.00000	0.00000
-1.0000	34.7336	2.79853	4.92171	2.79855	0.00001
1.0000	34.7345	2.96964	5.02938	2.96963	-0.00001
15.0000	34.7353	4.26273	5.77831	4.26271	-0.00002
18.5000	34.7348	4.60872	5.96269	4.60874	0.00001
29.0000	34.7324	5.69012	6.50504	5.69014	0.00001
32.5000	34.7258	6.06199	6.68127	6.06198	-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

