

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: 3858
CALIBRATION DATE: 10-May-13

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

GHIJ COEFFICIENTS

g = -1.02245051e+001
h = 1.52915760e+000
i = -1.68168690e-003
j = 2.13345157e-004
CPcor = -9.5700e-008 (nominal)
CTcor = 3.2500e-006 (nominal)

ABCDM COEFFICIENTS

a = 2.35106095e-006
b = 1.52501060e+000
c = -1.02167675e+001
d = -8.50405147e-005
m = 5.6
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	2.58828	0.00000	0.00000
-0.9999	34.7849	2.80229	5.00623	2.80229	-0.00001
1.0000	34.7853	2.97357	5.11702	2.97357	0.00000
15.0001	34.7860	4.26830	5.88705	4.26832	0.00002
18.5001	34.7861	4.61480	6.07646	4.61478	-0.00002
29.0001	34.7853	5.69782	6.63340	5.69783	0.00001
32.5000	34.7803	6.07042	6.81436	6.07042	-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

