

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: 2356
CALIBRATION DATE: 19-Jul-12

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

GHIJ COEFFICIENTS

g = -1.00831271e+001
h = 1.46967967e+000
i = 6.86551135e-004
j = 3.86049249e-005
CPcor = -9.5700e-008 (nominal)
CTcor = 3.2500e-006 (nominal)

ABCDM COEFFICIENTS

a = 6.48999405e-004
b = 1.46956933e+000
c = -1.00822914e+001
d = -8.10909363e-005
m = 3.2
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	2.61747	0.00000	0.00000
-0.9999	34.7531	2.79997	5.08266	2.79998	0.00001
1.0000	34.7541	2.97115	5.19543	2.97115	-0.00001
15.0000	34.7558	4.26498	5.97899	4.26495	-0.00002
18.5000	34.7552	4.61114	6.17171	4.61117	0.00003
29.0001	34.7533	5.69317	6.73830	5.69315	-0.00002
32.5001	34.7451	6.06499	6.92223	6.06500	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

