

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: 3338
CALIBRATION DATE: 25-Jan-12

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

GHIJ COEFFICIENTS

g = -1.01950688e+001
h = 1.57715868e+000
i = -2.60692470e-003
j = 2.95624432e-004
CPcor = -9.5700e-008 (nominal)
CTcor = 3.2500e-006 (nominal)

ABCDM COEFFICIENTS

a = 5.09668405e-007
b = 1.57039847e+000
c = -1.01819672e+001
d = -8.47802473e-005
m = 6.4
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	2.54629	0.00000	0.00000
-1.0000	34.9273	2.81268	4.93817	2.81267	-0.00002
1.0000	34.9274	2.98455	5.04765	2.98456	0.00001
15.0000	34.9272	4.28377	5.80841	4.28381	0.00004
18.5000	34.9274	4.63151	5.99550	4.63150	-0.00002
29.0000	34.9268	5.71837	6.54555	5.71833	-0.00004
32.5000	34.9214	6.09224	6.72427	6.09227	0.00003

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

