

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: 2489
CALIBRATION DATE: 11-Jan-12

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

GHIJ COEFFICIENTS

g = -1.03311807e+001
h = 1.61601535e+000
i = -2.34248543e-003
j = 2.73576439e-004
CPcor = -9.5700e-008 (nominal)
CTcor = 3.2500e-006 (nominal)

ABCDM COEFFICIENTS

a = 7.53072228e-007
b = 1.61004949e+000
c = -1.03198535e+001
d = -8.32213162e-005
m = 6.2
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	2.53171	0.00000	0.00000
-1.0000	34.8590	2.80769	4.88260	2.80771	0.00002
1.0000	34.8597	2.97932	4.99042	2.97931	-0.00002
15.0000	34.8590	4.27630	5.73991	4.27629	-0.00000
18.5000	34.8586	4.62337	5.92429	4.62336	-0.00002
29.0000	34.8559	5.70807	6.46641	5.70812	0.00004
32.5000	34.8476	6.08083	6.64233	6.08080	-0.00003

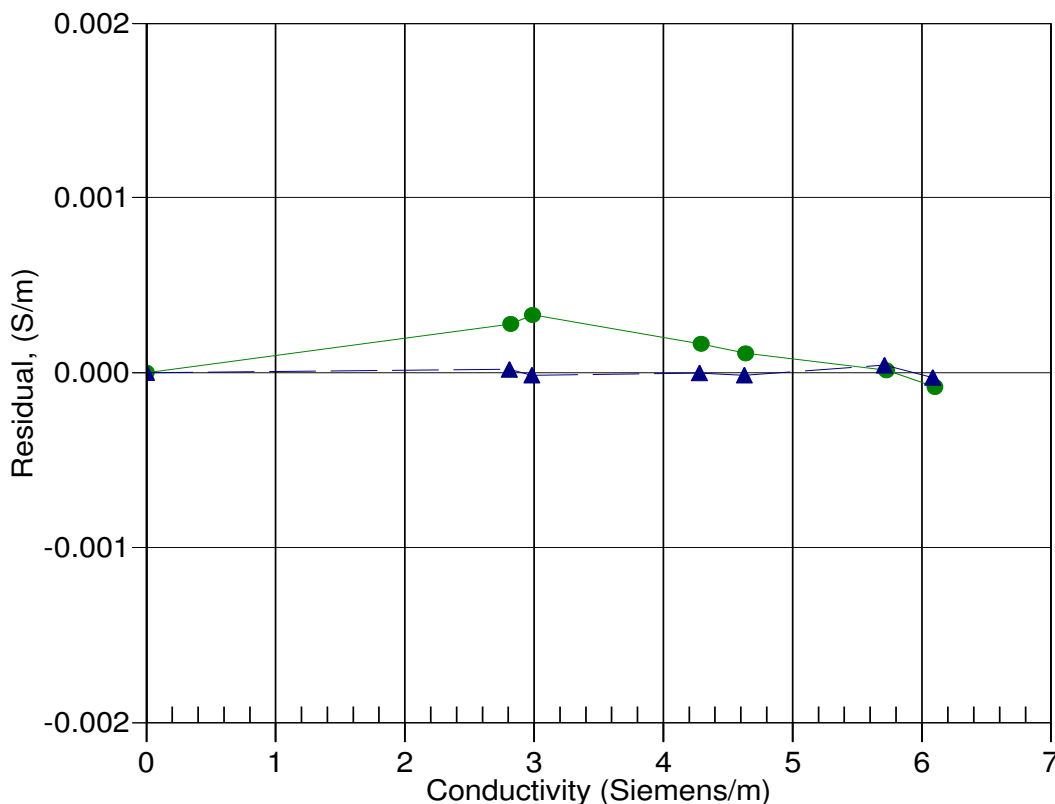
Conductivity = $(g + hf^2 + if^3 + jf^4) / 10(1 + \delta t + \epsilon p)$ Siemens/meter

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



16-Feb-11 0.9999798
11-Jan-12 1.0000000