

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: 2209
CALIBRATION DATE: 17-Jan-12

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

GHIJ COEFFICIENTS

g = -1.03741182e+001
h = 1.40507805e+000
i = 6.47774267e-004
j = 1.84006374e-005
CPcor = -9.5700e-008 (nominal)
CTcor = 3.2500e-006 (nominal)

ABCDM COEFFICIENTS

a = 6.33793648e-004
b = 1.40505797e+000
c = -1.03740474e+001
d = -8.52821482e-005
m = 3.1
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	2.71539	0.00000	0.00000
-0.9980	34.9264	2.81279	5.22746	2.81278	-0.00000
1.0000	34.9265	2.98448	5.34257	2.98448	-0.00000
15.0000	34.9266	4.28371	6.14384	4.28374	0.00003
18.5000	34.9270	4.63146	6.34104	4.63145	-0.00001
29.0000	34.9246	5.71805	6.92096	5.71803	-0.00003
32.5000	34.9144	6.09116	7.10915	6.09118	0.00002

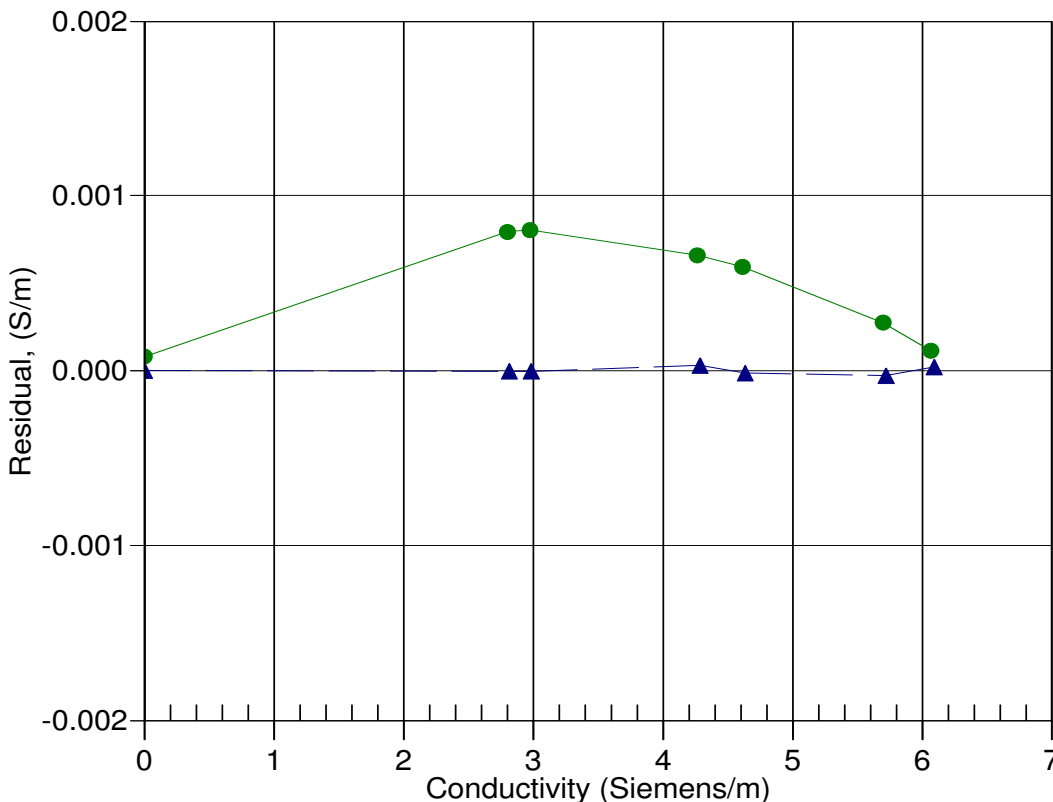
Conductivity = $(g + hf^2 + if^3 + jf^4) / 10(1 + \delta t + \epsilon p)$ Siemens/meter

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



26-Jan-11 0.9999012
17-Jan-12 1.0000000