

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: 2980
CALIBRATION DATE: 22-Jun-12

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

GHIJ COEFFICIENTS

g = -9.89274320e+000
h = 1.31939572e+000
i = 1.50224949e-002
j = -1.09757347e-003
CPcor = -9.5700e-008 (nominal)
CTcor = 3.2500e-006 (nominal)

ABCDM COEFFICIENTS

a = 8.37001197e-003
b = 1.36449319e+000
c = -1.00642770e+001
d = -7.08251658e-004
m = 2.1
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	2.70502	0.00000	0.00000
-1.0000	34.7336	2.79853	5.26181	2.79842	-0.00012
1.0000	34.7345	2.96964	5.37873	2.96972	0.00008
15.0000	34.7353	4.26273	6.19112	4.26300	0.00027
18.5000	34.7348	4.60872	6.39097	4.60849	-0.00023
29.0000	34.7324	5.69012	6.98071	5.69004	-0.00008
32.5000	34.7258	6.06199	7.17278	6.06207	0.00008

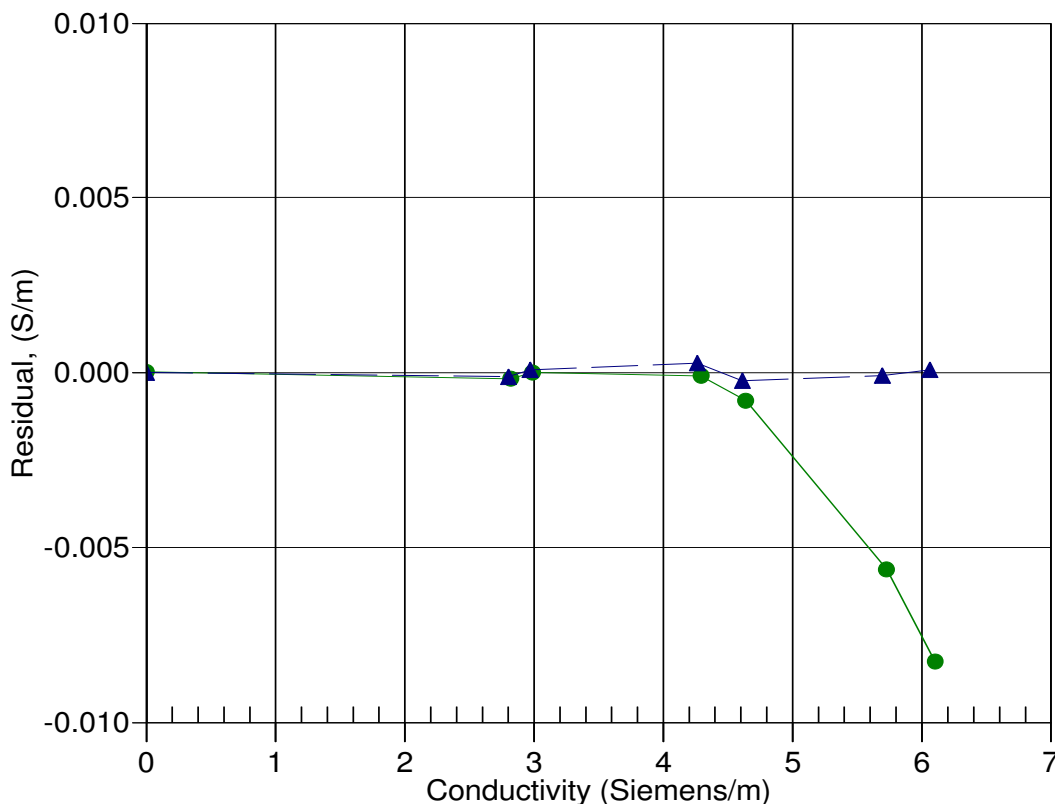
Conductivity = $(g + hf^2 + if^3 + jf^4) / 10(1 + \delta t + \epsilon p)$ Siemens/meter

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



15-Feb-11 1.0006875
22-Jun-12 1.0000000