

Sea-Bird Electronics, Inc.

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SENSOR SERIAL NUMBER: 4229
CALIBRATION DATE: 01-Oct-13

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

GHIJ COEFFICIENTS

g = -9.73943407e+000
h = 1.50351574e+000
i = -1.34147631e-003
j = 1.89910999e-004
CPcor = -9.5700e-008 (nominal)
CTcor = 3.2500e-006 (nominal)

ABCDM COEFFICIENTS

a = 5.67989622e-006
b = 1.50036144e+000
c = -9.73387012e+000
d = -8.49550250e-005
m = 5.2
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	2.54700	0.00000	0.00000
-1.0000	34.7401	2.79901	5.01266	2.79901	-0.00000
1.0000	34.7411	2.97015	5.12499	2.97015	0.00000
15.0000	34.7440	4.26368	5.90486	4.26369	0.00000
18.5000	34.7447	4.60989	6.09655	4.60988	-0.00001
29.0000	34.7443	5.69185	6.65984	5.69187	0.00002
32.5000	34.7390	6.06403	6.84275	6.06402	-0.00001

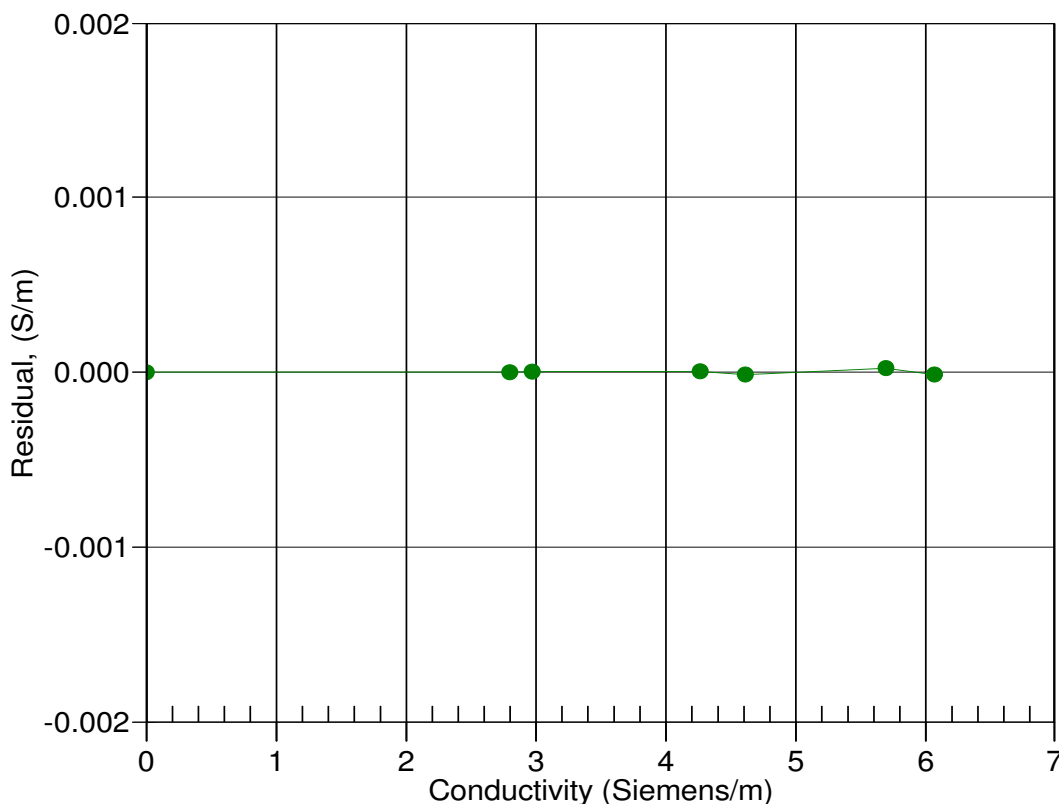
Conductivity = $(g + hf^2 + if^3 + jf^4) / 10(1 + \delta t + \epsilon p)$ Siemens/meter

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



01-Oct-13 1.0000000