

Sea-Bird Electronics, Inc.

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SENSOR SERIAL NUMBER: 4204
CALIBRATION DATE: 02-Oct-13

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

GHIJ COEFFICIENTS

g = -9.70680004e+000
h = 1.46221504e+000
i = -1.89350076e-003
j = 2.35588453e-004
CPcor = -9.5700e-008 (nominal)
CTcor = 3.2500e-006 (nominal)

ABCDM COEFFICIENTS

a = 2.53577415e-006
b = 1.45744662e+000
c = -9.69756959e+000
d = -8.40008332e-005
m = 5.6
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	2.57944	0.00000	0.00000
-1.0000	34.8146	2.80445	5.08728	2.80445	-0.00001
1.0000	34.8155	2.97590	5.20142	2.97590	0.00000
15.0000	34.8181	4.27181	5.99379	4.27183	0.00002
18.5000	34.8189	4.61868	6.18851	4.61867	-0.00001
29.0000	34.8188	5.70268	6.76061	5.70266	-0.00002
32.5000	34.8132	6.07551	6.94636	6.07553	0.00002

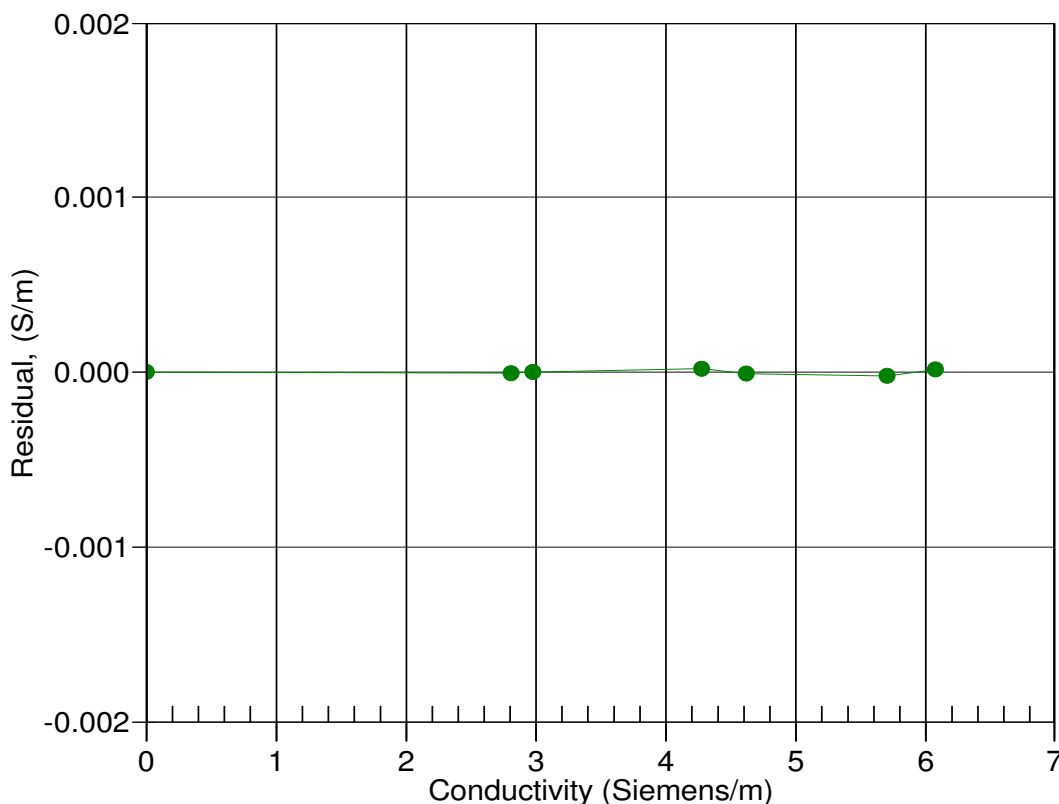
Conductivity = $(g + hf^2 + if^3 + jf^4) / 10(1 + \delta t + \epsilon p)$ Siemens/meter

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



02-Oct-13 1.0000000