

Sea-Bird Electronics, Inc.

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SENSOR SERIAL NUMBER: 3860
CALIBRATION DATE: 18-Jun-13

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

GHIJ COEFFICIENTS

g = -1.03274896e+001
h = 1.48508936e+000
i = -1.19352173e-003
j = 1.68798328e-004
CPcor = -9.5700e-008 (nominal)
CTcor = 3.2500e-006 (nominal)

ABCDM COEFFICIENTS

a = 6.24068008e-006
b = 1.48221499e+000
c = -1.03220540e+001
d = -8.36665017e-005
m = 5.1
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	2.63882	0.00000	0.00000
-1.0000	34.8509	2.80710	5.08779	2.80710	-0.00001
1.0000	34.8511	2.97866	5.20012	2.97867	0.00001
15.0000	34.8519	4.27552	5.98094	4.27551	-0.00001
18.5000	34.8513	4.62251	6.17302	4.62252	0.00001
29.0001	34.8505	5.70730	6.73795	5.70730	-0.00000
32.5000	34.8457	6.08054	6.92156	6.08054	0.00000

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

