

Sea-Bird Electronics, Inc.

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SENSOR SERIAL NUMBER: 0926
CALIBRATION DATE: 25-Jul-12

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

GHIJ COEFFICIENTS

g = -4.06369846e+000
h = 5.32012297e-001
i = -4.89944689e-004
j = 5.31403540e-005
CPcor = -9.5700e-008 (nominal)
CTcor = 3.2500e-006 (nominal)

ABCDM COEFFICIENTS

a = 2.47482851e-006
b = 5.30391610e-001
c = -4.05874325e+000
d = -8.30754798e-005
m = 4.9
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	2.76622	0.00000	0.00000
-0.9999	34.8839	2.80952	7.77919	2.80955	0.00003
1.0001	34.8850	2.98129	7.98366	2.98126	-0.00002
15.0001	34.8864	4.27931	9.38426	4.27927	-0.00004
18.5001	34.8861	4.62664	9.72434	4.62667	0.00003
29.0000	34.8855	5.71237	10.71624	5.71239	0.00001
32.5000	34.8790	6.08568	11.03613	6.08567	-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

