

Sea-Bird Electronics, Inc.

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SENSOR SERIAL NUMBER: 1896
CALIBRATION DATE: 12-Jul-12

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

GHIJ COEFFICIENTS

g = -4.09642302e+000
h = 5.23553146e-001
i = -1.21175318e-003
j = 8.96141344e-005
CPcor = -9.5700e-008 (nominal)
CTcor = 3.2500e-006 (nominal)

ABCDM COEFFICIENTS

a = 8.89615354e-008
b = 5.18784949e-001
c = -4.07889187e+000
d = -6.45017653e-005
m = 6.2
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	2.80441	0.00000	0.00000
-0.9999	34.7017	2.79621	7.85512	2.79623	0.00001
1.0001	34.7030	2.96721	8.06155	2.96721	0.00000
15.0001	34.7043	4.25934	9.47476	4.25929	-0.00004
18.5000	34.7041	4.60509	9.81773	4.60509	-0.00000
29.0001	34.7029	5.68584	10.81773	5.68594	0.00009
32.5001	34.6981	6.05772	11.14015	6.05765	-0.00006

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

