

Sea-Bird Electronics, Inc.

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SENSOR SERIAL NUMBER: 3861

CALIBRATION DATE: 23-Apr-14

SBE 4 CONDUCTIVITY CALIBRATION DATA

PSS 1978: C(35,15,0) = 4.2914 Siemens/meter

COEFFICIENTS:

g = -1.02406797e+001

h = 1.36117321e+000

i = -6.02783494e-004

j = 1.10733316e-004

CPcor = -9.5700e-008 (nominal)

CTcor = 3.2500e-006 (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	2.74371	0.00000	0.00000
-1.0000	34.6724	2.79406	5.29642	2.79407	0.00001
1.0000	34.6731	2.96489	5.41347	2.96488	-0.00001
15.0000	34.6729	4.25588	6.22702	4.25587	-0.00001
18.5000	34.6722	4.60131	6.42714	4.60131	-0.00001
29.0000	34.6698	5.68102	7.01567	5.68104	0.00003
32.5000	34.6628	6.05224	7.20678	6.05223	-0.00002

f = INST FREQ / 1000.0

Conductivity = $(g + h * f^2 + i * f^3 + j * f^4) / (1 + \delta * t + \epsilon * p)$ Siemens / meter

t = temperature[°C]; p = pressure[decibars]; δ = CTcor; ϵ = CPcor;

Residual = instrument conductivity - bath conductivity

