

Sea-Bird Electronics, Inc.

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SENSOR SERIAL NUMBER: 3858
CALIBRATION DATE: 15-Oct-14

SBE 4 CONDUCTIVITY CALIBRATION DATA
PSS 1978: C(35,15,0) = 4.2914 Siemens/meter

COEFFICIENTS:

g = -1.02156545e+001
h = 1.52600832e+000
i = -8.33127863e-004
j = 1.53118978e-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	2.58830	0.00000	0.00000
-1.0000	34.6407	2.79175	4.99944	2.79176	0.00002
1.0000	34.6418	2.96247	5.10999	2.96246	-0.00001
15.0000	34.6427	4.25256	5.87825	4.25254	-0.00003
18.5000	34.6424	4.59778	6.06726	4.59779	0.00001
29.0000	34.6406	5.67677	6.62298	5.67681	0.00004
32.5001	34.6340	6.04780	6.80344	6.04777	-0.00003

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

