

Sea-Bird Electronics, Inc.

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SENSOR SERIAL NUMBER: 3854

CALIBRATION DATE: 24-Apr-14

SBE 4 CONDUCTIVITY CALIBRATION DATA

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

COEFFICIENTS:

g = -1.04173234e+001

h = 1.58355917e+000

i = -1.51885502e-003

j = 2.13652651e-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	2.56686	0.00000	0.00000
-1.0000	34.6222	2.79039	4.92286	2.79040	0.00000
1.0000	34.6229	2.96100	5.03117	2.96101	0.00001
15.0000	34.6235	4.25046	5.78407	4.25044	-0.00001
18.5000	34.6230	4.59549	5.96932	4.59548	-0.00001
29.0000	34.6210	5.67392	6.51417	5.67396	0.00004
32.5000	34.6143	6.04474	6.69111	6.04471	-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

