

Sea-Bird Electronics, Inc.

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SENSOR SERIAL NUMBER: 3451

CALIBRATION DATE: 22-Apr-15

SBE 4 CONDUCTIVITY CALIBRATION DATA

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

COEFFICIENTS:

g = -1.02550039e+001

h = 1.59224782e+000

i = -2.20648436e-003

j = 2.71082302e-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	2.54091	0.00000	0.00000
-1.0000	34.7239	2.79783	4.90684	2.79782	-0.00001
1.0000	34.7243	2.96885	5.01532	2.96886	0.00001
15.0000	34.7250	4.26160	5.76923	4.26159	-0.00001
18.5000	34.7251	4.60757	5.95469	4.60757	-0.00000
29.0001	34.7233	5.68881	6.49991	5.68883	0.00002
32.5001	34.7165	6.06056	6.67694	6.06055	-0.00001

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

