

Sea-Bird Electronics, Inc.

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SENSOR SERIAL NUMBER: 4349
CALIBRATION DATE: 04-Nov-14

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

COEFFICIENTS:

g = -9.76342772e+000
h = 1.38700873e+000
i = -1.31236963e-003
j = 1.58472996e-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	2.65542	0.00000	0.00000
-1.0000	34.8009	2.80345	5.22504	2.80344	-0.00001
0.9999	34.8045	2.97504	5.34227	2.97505	0.00001
14.9999	34.8099	4.27090	6.15545	4.27090	-0.00000
18.4999	34.8098	4.61759	6.35527	4.61760	0.00001
28.9999	34.8076	5.70104	6.94243	5.70102	-0.00002
32.4999	34.8009	6.07360	7.13307	6.07361	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

