

Sea-Bird Electronics, Inc.

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SENSOR SERIAL NUMBER: 4346
CALIBRATION DATE: 29-Oct-14

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

COEFFICIENTS:

g = -9.89618457e+000
h = 1.29569033e+000
i = -2.82476483e-003
j = 2.56057238e-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	2.76992	0.00000	0.00000
-1.0000	34.4083	2.77475	5.40635	2.77475	0.00000
0.9999	34.4124	2.94470	5.52706	2.94470	-0.00000
14.9999	34.4249	4.22864	6.36502	4.22865	0.00001
18.4999	34.4297	4.57257	6.57119	4.57255	-0.00002
28.9999	34.4351	5.64685	7.17673	5.64688	0.00002
32.4999	34.4352	6.01699	7.37366	6.01698	-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

