

Sea-Bird Electronics, Inc.

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SENSOR SERIAL NUMBER: 4346

CALIBRATION DATE: 03-Sep-15

SBE 4 CONDUCTIVITY CALIBRATION DATA

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

COEFFICIENTS:

g = -9.89434168e+000

h = 1.29474196e+000

i = -2.53357544e-003

j = 2.34955459e-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	2.76999	0.00000	0.00000
-1.0001	34.7165	2.79728	5.42235	2.79728	0.00000
0.9999	34.7170	2.96828	5.54343	2.96828	0.00001
15.0000	34.7190	4.26094	6.38440	4.26091	-0.00003
18.4999	34.7186	4.60680	6.59112	4.60681	0.00002
29.0000	34.7164	5.68780	7.19853	5.68781	0.00002
32.4999	34.7060	6.05892	7.39539	6.05890	-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

