

Sea-Bird Electronics, Inc.

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SENSOR SERIAL NUMBER: 3143
CALIBRATION DATE: 02-Dec-14

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

COEFFICIENTS:

g = -1.03095861e+001
h = 1.24234870e+000
i = -3.32524927e-005
j = 6.21234120e-005

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	2.88022	0.00000	0.00000
-1.0000	34.2382	2.76230	5.52186	2.76231	0.00000
1.0000	34.2384	2.93123	5.64330	2.93123	-0.00000
15.0000	34.2378	4.20808	6.48775	4.20809	0.00001
18.5000	34.2379	4.54984	6.69559	4.54981	-0.00002
29.0001	34.2359	5.61786	7.30688	5.61788	0.00002
32.5001	34.2288	5.98502	7.50541	5.98501	-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 = temperatur e[°C]; p = pressure[decibars]; δ = CTcor; ϵ = CPcor;

Residual = instrument conductivity - bath conductivity

