

Sea-Bird Electronics, Inc.

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SENSOR SERIAL NUMBER: 4223
CALIBRATION DATE: 18-Mar-15

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

COEFFICIENTS:

g = -9.93176540e+000
h = 1.37430470e+000
i = -2.38847918e-003
j = 2.29307638e-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	2.69294	0.00000	0.00000
-1.0000	34.6628	2.79336	5.26095	2.79336	0.00000
1.0000	34.6634	2.96414	5.37828	2.96414	-0.00000
15.0000	34.6639	4.25489	6.19322	4.25489	-0.00001
18.5000	34.6637	4.60031	6.39358	4.60030	-0.00000
29.0000	34.6614	5.67980	6.98243	5.67982	0.00002
32.5000	34.6524	6.05063	7.17342	6.05062	-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

