

Sea-Bird Electronics, Inc.

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SENSOR SERIAL NUMBER: 4223
CALIBRATION DATE: 14-Oct-14

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

COEFFICIENTS:

g = -9.92933236e+000
h = 1.37363619e+000
i = -2.22232817e-003
j = 2.15788617e-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	2.69292	0.00000	0.00000
-1.0000	34.6727	2.79408	5.26160	2.79408	-0.00001
1.0000	34.6735	2.96492	5.37898	2.96493	0.00001
15.0001	34.6745	4.25606	6.19412	4.25606	-0.00000
18.5000	34.6747	4.60161	6.39455	4.60160	-0.00001
29.0001	34.6731	5.68151	6.98363	5.68153	0.00002
32.5000	34.6671	6.05291	7.17490	6.05289	-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

