

Sea-Bird Electronics, Inc.

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SENSOR SERIAL NUMBER: 2603
CALIBRATION DATE: 23-Dec-14

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

COEFFICIENTS:

g = -1.05027067e+001
h = 1.52984902e+000
i = -1.70427499e-003
j = 2.16740759e-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	2.62271	0.00000	0.00000
-1.0000	34.7980	2.80324	5.02392	2.80324	-0.00000
1.0000	34.7984	2.97458	5.13432	2.97458	0.00000
15.0000	34.7982	4.26963	5.90191	4.26964	0.00001
18.5000	34.7982	4.61623	6.09082	4.61622	-0.00001
29.0001	34.7969	5.69951	6.64640	5.69950	-0.00001
32.5000	34.7897	6.07188	6.82682	6.07188	0.00000

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

