

Sea-Bird Electronics, Inc.

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SENSOR SERIAL NUMBER: 3404
CALIBRATION DATE: 28-Nov-14

SBE 21 CONDUCTIVITY CALIBRATION DATA
PSS 1978: C(35,15,0) = 4.2914 Siemens/meter

COEFFICIENTS:

g = -3.98943867e+000
h = 4.69772347e-001
i = -2.35286564e-005
j = 2.44577517e-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)
22.0000	0.0000	0.00000	2.91372	0.00000	0.00000
1.0000	34.7042	2.96729	8.45112	2.96728	-0.00001
4.5000	34.6848	3.27354	8.82585	3.27356	0.00002
15.0000	34.6431	4.25261	9.92796	4.25259	-0.00002
18.5000	34.6345	4.59685	10.28703	4.59687	0.00003
24.0000	34.6253	5.15335	10.84176	5.15333	-0.00002
29.0000	34.6203	5.67382	11.33557	5.67383	0.00001
32.5000	34.6170	6.04515	11.67470	6.04504	-0.00012

Conductivity = $(g + h * t^2 + i * t^3 + j * t^4) / [10 * (1 + \delta * t + \epsilon * p)]$ Siemens / meter

t = temperature[°C]; p = pressure[decibars]; δ = CTcor; ϵ = CPcor;

Residual = instrument conductivity - bath conductivity

