

Sea-Bird Electronics, Inc.

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SENSOR SERIAL NUMBER: 1347
CALIBRATION DATE: 09-Mar-17

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

COEFFICIENTS:

g = -3.93253659e+000
h = 5.17178810e-001
i = -8.90388783e-005
j = 3.54676981e-005

CPcor = -9.5700e-008 (nominal)
CTcor = 3.2500e-006 (nominal)

BATH TEMP (° C)	BATH SAL (PSU)	BATH COND (S/m)	INSTRUMENT OUTPUT (kHz)	INSTRUMENT COND (S/m)	RESIDUAL (S/m)
0.0000	0.0000	0.00000	2.75744	0.00000	0.00000
-1.0000	34.7077	2.79664	7.84233	2.79664	-0.00000
1.0000	34.7076	2.96756	8.04897	2.96757	0.00002
15.0000	34.7070	4.25962	9.46390	4.25957	-0.00005
18.5000	34.7053	4.60523	9.80729	4.60526	0.00003
29.0000	34.6964	5.68489	10.80822	5.68493	0.00004
32.5000	34.6809	6.05504	11.13009	6.05501	-0.00003

f = Instrument Output (kHz)

t = temperature (°C); p = pressure (decibars); δ = CTcor; ϵ = CPcor;

Conductivity (S/m) = $(g + h * f^2 + i * f^3 + j * f^4) / 10 (1 + \delta * t + \epsilon * p)$

Residual (Siemens/meter) = instrument conductivity - bath conductivity

