

Sea-Bird Electronics, Inc.

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SENSOR SERIAL NUMBER: 2148
CALIBRATION DATE: 21-Jan-16

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

COEFFICIENTS:

g = -1.02292633e+001
h = 1.52197427e+000
i = -2.71681529e-003
j = 2.94707448e-004

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	2.59683	0.00000	0.00000
-1.0000	34.5566	2.78560	5.01258	2.78558	-0.00002
1.0000	34.5566	2.95587	5.12339	2.95589	0.00002
15.0000	34.5564	4.24309	5.89348	4.24310	0.00001
18.5000	34.5558	4.58753	6.08288	4.58752	-0.00001
29.0000	34.5548	5.66429	6.63983	5.66427	-0.00002
32.5000	34.5494	6.03469	6.82078	6.03470	0.00001

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

