

Sea-Bird Electronics, Inc.

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SENSOR SERIAL NUMBER: 3657
CALIBRATION DATE: 10-Mar-17

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

COEFFICIENTS:

g = -9.90141847e+000
h = 1.40207071e+000
i = -2.97207079e-003
j = 2.94826989e-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	2.66298	0.00000	0.00000
-1.0000	34.6149	2.78986	5.20621	2.78985	-0.00001
1.0000	34.6151	2.96040	5.32236	2.96041	0.00001
15.0000	34.6155	4.24958	6.12894	4.24955	-0.00003
18.5000	34.6137	4.59438	6.32713	4.59441	0.00002
29.0001	34.6024	5.67122	6.90903	5.67122	-0.00000
32.5001	34.5872	6.04055	7.09746	6.04055	-0.00000

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

