

Sea-Bird Electronics, Inc.

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SENSOR SERIAL NUMBER: 2707
CALIBRATION DATE: 20-Jan-16

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

COEFFICIENTS:

g = -1.07265688e+001
h = 1.55946953e+000
i = -1.31572164e-003
j = 1.86775491e-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	2.62448	0.00000	0.00000
-1.0000	34.5611	2.78593	4.97727	2.78590	-0.00003
1.0000	34.5611	2.95622	5.08587	2.95625	0.00003
15.0000	34.5617	4.24367	5.84129	4.24367	-0.00000
18.5000	34.5613	4.58818	6.02729	4.58818	0.00001
29.0000	34.5592	5.66493	6.57447	5.66491	-0.00002
32.5000	34.5490	6.03463	6.75203	6.03464	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

