

Sea-Bird Electronics, Inc.

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SENSOR SERIAL NUMBER: 3009
CALIBRATION DATE: 20-Jan-16

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

COEFFICIENTS:

g = -1.04864981e+001
h = 1.48778269e+000
i = 3.67673536e-004
j = 5.06417242e-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	2.65370	0.00000	0.00000
-1.0000	34.5611	2.78593	5.07137	2.78591	-0.00002
1.0000	34.5611	2.95622	5.18263	2.95625	0.00002
15.0000	34.5617	4.24367	5.95635	4.24367	-0.00000
18.5000	34.5613	4.58818	6.14681	4.58818	0.00001
29.0000	34.5592	5.66493	6.70707	5.66492	-0.00001
32.5000	34.5490	6.03463	6.88887	6.03463	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

