

Sea-Bird Electronics, Inc.

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SENSOR SERIAL NUMBER: 3861
CALIBRATION DATE: 11-Dec-15

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

COEFFICIENTS:

g = -1.02452649e+001
h = 1.36272939e+000
i = -1.02827250e-003
j = 1.41756455e-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	2.74370	0.00000	0.00000
-1.0001	34.5639	2.78612	5.29089	2.78613	0.00000
0.9999	34.5645	2.95648	5.40776	2.95647	-0.00000
14.9999	34.5644	4.24396	6.22003	4.24397	0.00001
18.4999	34.5644	4.58853	6.41987	4.58852	-0.00001
28.9999	34.5614	5.66524	7.00741	5.66525	0.00001
32.4999	34.5511	6.03494	7.19796	6.03493	-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

