

Sea-Bird Electronics, Inc.

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SENSOR SERIAL NUMBER: 2272
CALIBRATION DATE: 08-Dec-15

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

COEFFICIENTS:

g = -1.02627467e+001
h = 1.38140940e+000
i = -2.65549734e-003
j = 2.48302792e-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	2.73100	0.00000	0.00000
-1.0001	34.6768	2.79438	5.27261	2.79438	0.00001
0.9999	34.6778	2.96524	5.38924	2.96524	-0.00000
14.9999	34.6789	4.25653	6.19968	4.25651	-0.00002
18.4999	34.6784	4.60204	6.39903	4.60205	0.00001
28.9999	34.6757	5.68187	6.98508	5.68189	0.00002
32.5000	34.6651	6.05260	7.17510	6.05258	-0.00002

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

