

Sea-Bird Electronics, Inc.

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SENSOR SERIAL NUMBER: 4229
CALIBRATION DATE: 29-Mar-16

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

COEFFICIENTS:

g = -9.74243894e+000
h = 1.50438469e+000
i = -1.54586488e-003
j = 2.09328312e-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	2.54699	0.00000	0.00000
-1.0000	34.8016	2.80350	5.01528	2.80349	-0.00001
1.0000	34.8020	2.97486	5.12768	2.97487	0.00001
15.0000	34.8018	4.27002	5.90793	4.27003	0.00000
18.5000	34.8010	4.61656	6.09966	4.61656	0.00000
29.0001	34.7985	5.69974	6.66309	5.69973	-0.00001
32.5000	34.7880	6.07161	6.84572	6.07162	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

