

Sea-Bird Electronics, Inc.

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SENSOR SERIAL NUMBER: 3407
CALIBRATION DATE: 12-Jan-17

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

COEFFICIENTS:

g = -9.97466009e+000
h = 1.50203658e+000
i = -1.94439814e-003
j = 2.34518753e-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	2.57994	0.00000	0.00000
-1.0000	34.5586	2.78574	5.02511	2.78573	-0.00001
1.0000	34.5583	2.95600	5.13689	2.95602	0.00002
15.0000	34.5569	4.24314	5.91339	4.24315	0.00000
18.5000	34.5551	4.58744	6.10423	4.58743	-0.00001
29.0000	34.5527	5.66398	6.66545	5.66399	0.00001
32.5000	34.5486	6.03457	6.84786	6.03456	-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

