

Sea-Bird Electronics, Inc.

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SENSOR SERIAL NUMBER: 3858
CALIBRATION DATE: 09-Mar-17

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

COEFFICIENTS:

g = -1.02233098e+001
h = 1.52853842e+000
i = -1.48857642e-003
j = 1.98783958e-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	2.58831	0.00000	0.00000
-1.0000	34.7077	2.79664	5.00247	2.79661	-0.00003
1.0000	34.7076	2.96756	5.11314	2.96759	0.00003
15.0000	34.7070	4.25962	5.88212	4.25961	-0.00001
18.5000	34.7053	4.60523	6.07123	4.60525	0.00002
29.0000	34.6964	5.68489	6.62691	5.68486	-0.00003
32.5000	34.6809	6.05504	6.80690	6.05506	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

