

# Sea-Bird Electronics, Inc.

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SENSOR SERIAL NUMBER: 2670  
CALIBRATION DATE: 14-Mar-17

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

## COEFFICIENTS:

g = -9.76668185e+000  
h = 1.30706976e+000  
i = -3.47412812e-004  
j = 1.01242880e-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	2.73373	0.00000	0.00000
-1.0000	34.7865	2.80240	5.37485	2.80239	-0.00001
1.0000	34.7870	2.97370	5.49515	2.97371	0.00001
15.0000	34.7878	4.26849	6.33038	4.26848	-0.00001
18.5000	34.7869	4.61489	6.53563	4.61490	0.00001
29.0000	34.7801	5.69706	7.13850	5.69704	-0.00002
32.5000	34.7651	6.06807	7.33369	6.06808	0.00001

f = Instrument Output (kHz)

t = temperature (°C); p = pressure (decibars);  $\delta$  = CTcor;  $\epsilon$  = 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

