

# Sea-Bird Electronics, Inc.

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SENSOR SERIAL NUMBER: 0748  
CALIBRATION DATE: 19-Nov-15

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

## COEFFICIENTS:

g = -4.13310965e+000  
h = 4.36533559e-001  
i = -1.28480197e-004  
j = 2.54795440e-005

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	3.07756	0.00000	0.00000
-1.0001	34.4102	2.77488	8.53856	2.77488	-0.00000
0.9999	34.4102	2.94453	8.76214	2.94455	0.00002
14.9999	34.4111	4.22712	10.29422	4.22707	-0.00005
18.4999	34.4107	4.57032	10.66640	4.57034	0.00002
28.9999	34.4086	5.64300	11.75220	5.64305	0.00006
32.4999	34.3992	6.01141	12.10203	6.01137	-0.00004

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

