

# Sea-Bird Electronics, Inc.

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SENSOR SERIAL NUMBER: 2489  
CALIBRATION DATE: 19-Nov-15

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

## COEFFICIENTS:

g = -1.03359391e+001  
h = 1.61773079e+000  
i = -2.81578619e-003  
j = 3.11628647e-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	2.53170	0.00000	0.00000
-1.0001	34.4102	2.77488	4.86151	2.77486	-0.00002
0.9999	34.4102	2.94453	4.96861	2.94455	0.00003
14.9999	34.4111	4.22712	5.71311	4.22710	-0.00002
18.4999	34.4107	4.57032	5.89630	4.57033	0.00001
28.9999	34.4086	5.64300	6.43491	5.64300	0.00000
32.4999	34.3992	6.01141	6.60966	6.01141	-0.00000

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

