

# Sea-Bird Electronics, Inc.

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SENSOR SERIAL NUMBER: 2209  
CALIBRATION DATE: 23-Dec-14

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

## COEFFICIENTS:

g = -1.03889795e+001  
h = 1.41035791e+000  
i = -8.49204390e-004  
j = 1.26750485e-004

CPcor = -9.5700e-008 (nominal)  
CTcor = 3.2500e-006 (nominal)

BATH TEMP (ITS-90)	BATH SAL (PSU)	BATH COND (Siemens/m)	INST FREQ (kHz)	INST COND (Siemens/m)	RESIDUAL (Siemens/m)
0.0000	0.0000	0.00000	2.71539	0.00000	0.00000
-1.0000	34.7980	2.80324	5.22122	2.80324	0.00000
1.0000	34.7984	2.97458	5.33628	2.97459	0.00001
15.0000	34.7982	4.26963	6.13617	4.26961	-0.00002
18.5000	34.7982	4.61623	6.33303	4.61620	-0.00002
29.0001	34.7969	5.69951	6.91202	5.69959	0.00008
32.5000	34.7897	6.07188	7.09997	6.07182	-0.00005

f = INST FREQ / 1000.0

Conductivity =  $(g + h * f^2 + i * f^3 + j * f^4) / (1 + \delta * t + \epsilon * p)$  Siemens / meter

t = temperature[°C]; p = pressure[decibars];  $\delta$  = CTcor;  $\epsilon$  = CPcor;

Residual = instrument conductivity - bath conductivity

