

# Sea-Bird Electronics, Inc.

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SENSOR SERIAL NUMBER: 1805  
CALIBRATION DATE: 06-Feb-14

SBE 37 CONDUCTIVITY CALIBRATION DATA  
PSS 1978: C(35,15,0) = 4.2914 Siemens/meter

## COEFFICIENTS:

g = -9.798269e-001

CPcor = -9.5700e-008

h = 1.392864e-001

CTcor = 3.2500e-006

i = -2.000591e-004

WBOTC = 1.1929e-006

j = 4.241597e-005

BATH TEMP (ITS-90)	BATH SAL (PSU)	BATH COND (Siemens/m)	INST FREQ (Hz)	INST COND (Siemens/m)	RESIDUAL (Siemens/m)
22.0000	0.0000	0.00000	2654.46	0.00000	0.00000
1.0000	34.6850	2.96581	5319.76	2.96581	-0.00000
4.5000	34.6651	3.27186	5521.21	3.27187	0.00001
15.0000	34.6223	4.25033	6119.83	4.25031	-0.00002
18.5000	34.6129	4.59429	6316.44	4.59429	-0.00000
24.0000	34.6024	5.15031	6621.51	5.15034	0.00002
29.0000	34.5961	5.67030	6894.13	5.67029	-0.00001

$f = \text{INST FREQ} * \sqrt{1.0 + \text{WBOTC} * t} / 1000.0$

$\text{Conductivity} = (g + hf^2 + if^3 + jf^4) / (1 + \delta t + \epsilon p)$  Siemens/meter

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

Residual = instrument conductivity - bath conductivity

