

# Sea-Bird Electronics, Inc.

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SENSOR SERIAL NUMBER: 6826  
CALIBRATION DATE: 07-Feb-14

SBE16plusV2 CONDUCTIVITY CALIBRATION DATA  
PSS 1978: C(35,15,0) = 4.2914 Siemens/meter

## COEFFICIENTS:

g = -9.872960e-001  
h = 1.516260e-001  
i = -2.248261e-004  
j = 4.027679e-005

CPcor = -9.5700e-008  
CTcor = 3.2500e-006

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	2554.37	0.0000	0.00000
1.0000	34.7270	2.96906	5109.76	2.9691	-0.00000
4.5000	34.7075	3.27547	5303.31	3.2755	0.00000
15.0000	34.6657	4.25509	5878.76	4.2551	0.00000
18.5000	34.6570	4.59951	6067.86	4.5995	-0.00000
24.0000	34.6473	5.15626	6361.38	5.1563	0.00000
29.0000	34.6413	5.67687	6623.78	5.6769	0.00000
32.5000	34.6376	6.04834	6804.64	6.0483	-0.00000

f = INST FREQ / 1000.0

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

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

Residual = instrument conductivity - bath conductivity

