

# Sea-Bird Electronics, Inc.

13431 NE 20th Street, Bellevue, WA 98005-2010 USA

Phone: (+1) 425-643-9866 Fax (+1) 425-643-9954 Email: seabird@seabird.com

SENSOR SERIAL NUMBER: 6627  
CALIBRATION DATE: 11-Jan-12

SBE16plus CONDUCTIVITY CALIBRATION DATA  
PSS 1978: C(35,15,0) = 4.2914 Siemens/meter

## COEFFICIENTS:

g = -1.035047e+000  
h = 1.375973e-001  
i = -2.443103e-004  
j = 3.588916e-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	2746.68	0.0000	0.00000
0.9999	34.9054	2.98284	5409.08	2.9828	-0.00000
4.5000	34.8848	3.29055	5611.78	3.2906	0.00000
15.0000	34.8410	4.27432	6214.89	4.2743	-0.00000
18.5000	34.8312	4.62013	6413.16	4.6201	0.00000
24.0000	34.8197	5.17908	6720.96	5.1791	-0.00001
29.0000	34.8114	5.70161	6996.16	5.7016	0.00001
32.5001	34.8026	6.07388	7185.60	6.0739	-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

