

# 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: 2768  
CALIBRATION DATE: 18-Mar-17

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

**COEFFICIENTS:**

g = -1.00010085e+001  
h = 1.42779020e+000  
i = -9.47941259e-004  
j = 1.51715930e-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	2.64795	0.00000	0.00000
-1.0000	34.6216	2.79035	5.15398	2.79034	-0.00001
1.0000	34.6226	2.96098	5.26859	2.96099	0.00001
14.9999	34.6231	4.25040	6.06462	4.25042	0.00002
18.5000	34.6224	4.59541	6.26031	4.59538	-0.00003
29.0000	34.6149	5.67303	6.83531	5.67305	0.00002
32.5000	34.6001	6.04254	7.02149	6.04253	-0.00001

f = Instrument Output (kHz)

t = temperature (°C); p = pressure (decibars); δ = CTcor; ε = CPcor;

$$\text{Conductivity (S/m)} = (g + h * f^2 + i * f^3 + j * f^4) / 10 (1 + \delta * t + \epsilon * p)$$

$$\text{Residual (Siemens/meter)} = \text{instrument conductivity} - \text{bath conductivity}$$

