

# Sea-Bird Electronics, Inc.

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SENSOR SERIAL NUMBER: 1029  
CALIBRATION DATE: 23-Jun-15

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

## COEFFICIENTS:

g = -3.98571673e+000  
h = 5.40298827e-001  
i = -7.75426471e-005  
j = 3.38078884e-005

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	2.71594	0.00000	0.00000
-1.0000	34.5979	2.78862	7.67055	2.78861	-0.00000
1.0000	34.5983	2.95910	7.87241	2.95912	0.00002
15.0000	34.5992	4.24779	9.25496	4.24777	-0.00002
18.5000	34.5991	4.59265	9.59068	4.59264	-0.00001
29.0000	34.5966	5.67037	10.57001	5.67043	0.00006
32.5000	34.5890	6.04082	10.88575	6.04078	-0.00004

$$f = \text{INST FREQ} / 1000.0$$

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

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

Residual = instrument conductivity - bath conductivity

