

Sea-Bird Electronics, Inc.

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SENSOR SERIAL NUMBER: 0670
CALIBRATION DATE: 03-Jul-14

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

COEFFICIENTS:

g = -4.31178654e+000
h = 4.57577202e-001
i = 3.60023964e-004
j = 3.31825818e-006

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	3.06590	0.00000	0.00000
-1.0000	34.7200	2.79754	8.37042	2.79754	-0.00001
1.0000	34.7203	2.96854	8.58841	2.96855	0.00001
15.0000	34.7213	4.26119	10.08317	4.26115	-0.00004
18.5000	34.7207	4.60705	10.44654	4.60709	0.00003
29.0000	34.7197	5.68827	11.50746	5.68827	-0.00000
32.5000	34.7116	6.05979	11.84977	6.05979	-0.00000

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

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

t = temperatur e[°C]; p = pressure[decibars]; δ = CTcor; ϵ = CPcor;

Residual = instrument conductivity - bath conductivity

