

Sea-Bird Electronics, Inc.

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SENSOR SERIAL NUMBER: 1070
CALIBRATION DATE: 16-Jul-14

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

COEFFICIENTS:

g = -4.10518780e+000
h = 5.93766706e-001
i = -1.26604511e-004
j = 3.96289002e-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	2.62954	0.00000	0.00000
-1.0000	34.6792	2.79456	7.33957	2.79457	0.00001
1.0000	34.6793	2.96537	7.53207	2.96538	0.00001
15.0000	34.6800	4.25666	8.85117	4.25658	-0.00008
18.5000	34.6785	4.60206	9.17157	4.60210	0.00004
29.0000	34.6777	5.68217	10.10667	5.68224	0.00007
32.5000	34.6748	6.05410	10.40873	6.05405	-0.00005

f = INST FREQ / 1000.0

Conductivity = (g + h * f² + i * f³ + j * f⁴) / (1 + δ * t + ε * p) Siemens / meter

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

Residual = instrument conductivity - bath conductivity

