

Sea-Bird Electronics, Inc.

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SENSOR SERIAL NUMBER: 0497
CALIBRATION DATE: 03-Jul-14

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

COEFFICIENTS:

g = -4.26376660e+000
h = 4.60400117e-001
i = -3.68274980e-004
j = 3.64000918e-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	3.04578	0.00000	0.00000
-1.0000	34.7200	2.79754	8.37288	2.79754	0.00000
1.0000	34.7203	2.96854	8.59158	2.96855	0.00001
15.0000	34.7213	4.26119	10.09063	4.26115	-0.00004
18.5000	34.7207	4.60705	10.45484	4.60709	0.00004
29.0000	34.7197	5.68827	11.51756	5.68828	0.00000
32.5000	34.7116	6.05979	11.86023	6.05979	-0.00001

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

