

Sea-Bird Electronics, Inc.

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SENSOR SERIAL NUMBER: 9017
CALIBRATION DATE: 19-Apr-12

SBE 37 CONDUCTIVITY CALIBRATION DATA
PSS 1978: C(35,15,0) = 4.2914 Siemens/meter

COEFFICIENTS:

g = -1.009337e+000
h = 1.714759e-001
i = -4.755653e-004
j = 6.564978e-005

CPcor = -9.5700e-008
CTcor = 3.2500e-006
WBOTC = 8.2248e-007

BATH TEMP (ITS-90)	BATH SAL (PSU)	BATH COND (Siemens/m)	INST FREQ (Hz)	INST COND (Siemens/m)	RESIDUAL (Siemens/m)
22.0000	0.0000	0.00000	2431.57	0.00000	0.00000
1.0001	34.8968	2.98220	4835.48	2.98221	0.00001
4.5000	34.8763	3.28983	5017.90	3.28981	-0.00001
15.0000	34.8326	4.27340	5560.49	4.27339	-0.00001
18.5000	34.8230	4.61916	5738.81	4.61917	0.00001
24.0000	34.8122	5.17808	6015.59	5.17808	-0.00000
29.0000	34.8058	5.70079	6263.07	5.70079	-0.00000

$f = \text{INST FREQ} * \sqrt{1.0 + \text{WBOTC} * t} / 1000.0$

$\text{Conductivity} = (g + hf^2 + if^3 + jf^4) / (1 + \delta t + \epsilon p)$ Siemens/meter

t = temperature[°C]; p = pressure[decibars]; $\delta = \text{CTcor}$; $\epsilon = \text{CPcor}$;

Residual = instrument conductivity - bath conductivity

