

Sea-Bird Electronics, Inc.

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SENSOR SERIAL NUMBER: 3777

CALIBRATION DATE: 24-Sep-15

SBE 37 CONDUCTIVITY CALIBRATION DATA

PSS 1978: C(35,15,0) = 4.2914 Siemens/meter

COEFFICIENTS:

g = -1.056961e+000

h = 1.365914e-001

i = -3.661244e-004

j = 4.344186e-005

CPcor = -9.5700e-008

CTcor = 3.2500e-006

WBOTC = -5.5036e-006

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	2788.90	0.00000	0.00000
1.0000	34.7855	2.97358	5446.23	2.97358	-0.00001
4.5000	34.7658	3.28043	5649.34	3.28044	0.00001
15.0000	34.7231	4.26139	6253.81	4.26140	0.00001
18.5000	34.7139	4.60625	6452.59	4.60623	-0.00002
24.0000	34.7034	5.16369	6761.27	5.16368	-0.00000
29.0000	34.6970	5.68497	7037.37	5.68499	0.00002
32.5000	34.6921	6.05678	7227.63	6.05677	-0.00001

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

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

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

Residual = instrument conductivity - bath conductivity

