

Sea-Bird Electronics, Inc.

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SENSOR SERIAL NUMBER: 9017

CALIBRATION DATE: 30-Sep-15

SBE 37 V2 CONDUCTIVITY CALIBRATION DATA

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

COEFFICIENTS:

g = -1.013437e+000

h = 1.721537e-001

i = -6.241722e-004

j = 7.482903e-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	2433.87	0.00000	0.00000
1.0000	34.7328	2.96951	4827.81	2.96949	-0.00002
4.5000	34.7128	3.27592	5009.81	3.27593	0.00001
15.0000	34.6695	4.25551	5551.07	4.25552	0.00001
18.5000	34.6603	4.59990	5728.98	4.59991	0.00001
23.9999	34.6501	5.15662	6005.15	5.15661	-0.00001
29.0000	34.6447	5.67737	6252.14	5.67734	-0.00002
32.4999	34.6424	6.04908	6422.47	6.04910	0.00002

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

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

