

Sea-Bird Electronics, Inc.

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SENSOR SERIAL NUMBER: 2973

CALIBRATION DATE: 08-Jul-15

SBE 4 CONDUCTIVITY CALIBRATION DATA

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

COEFFICIENTS:

g = -9.96028395e+000

h = 1.34601887e+000

i = 1.24653906e-004

j = 6.61180220e-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	2.71942	0.00000	0.00000
-1.0000	34.6439	2.79198	5.29997	2.79198	-0.00000
1.0000	34.6445	2.96268	5.41790	2.96269	0.00001
15.0000	34.6456	4.25288	6.23701	4.25285	-0.00003
18.4999	34.6450	4.59808	6.43843	4.59808	-0.00000
29.0000	34.6428	5.67709	7.03057	5.67716	0.00006
32.5000	34.6371	6.04827	7.22289	6.04822	-0.00004

f = INST FREQ / 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

