

Sea-Bird Electronics, Inc.

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SENSOR SERIAL NUMBER: 0811

CALIBRATION DATE: 11-Sep-14

SBE 37 TEMPERATURE CALIBRATION DATA

ITS-90 TEMPERATURE SCALE

COEFFICIENTS:

a0 = 9.099922e-006

a1 = 2.788494e-004

a2 = -2.661505e-006

a3 = 1.614086e-007

BATH TEMP (ITS-90)	INSTRUMENT OUTPUT	INST TEMP (ITS-90)	RESIDUAL (ITS-90)
0.9999	641198.5	1.0000	0.0001
4.5000	548265.5	4.4999	-0.0001
14.9999	349460.9	15.0000	0.0001
18.4999	302607.1	18.4999	-0.0000
23.9999	242769.3	23.9998	-0.0001
29.0001	199901.6	29.0001	0.0000
32.5000	175059.6	32.5000	0.0000

Temperature ITS-90 = $1/\{a_0 + a_1[\ln(n)] + a_2[\ln^2(n)] + a_3[\ln^3(n)]\} - 273.15$ (°C)

Residual = instrument temperature - bath temperature

n = instrument output

