

Sea-Bird Electronics, Inc.

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SENSOR SERIAL NUMBER: 3765
CALIBRATION DATE: 05-Oct-16

SBE 37 TEMPERATURE CALIBRATION DATA
ITS-90 TEMPERATURE SCALE

COEFFICIENTS:

a0 = 1.107769e-005
a1 = 2.709368e-004
a2 = -1.932063e-006
a3 = 1.446358e-007

BATH TEMP (° C)	INSTRUMENT OUTPUT (counts)	INST TEMP (° C)	RESIDUAL (° C)
1.0000	671021.5	1.0000	0.0000
4.4999	574662.3	4.4998	-0.0001
15.0000	367921.1	15.0000	0.0000
18.5000	319040.7	18.5001	0.0001
24.0000	256506.1	23.9999	-0.0001
29.0001	211611.3	29.0001	0.0000
32.5000	185550.1	32.5000	0.0000

n = Instrument Output (counts)

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

Residual (°C) = instrument temperature - bath temperature

