

Sea-Bird Electronics, Inc.

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SENSOR SERIAL NUMBER: 1805
CALIBRATION DATE: 08-Dec-15

SBE 37 TEMPERATURE CALIBRATION DATA
ITS-90 TEMPERATURE SCALE

COEFFICIENTS:

a0 = -1.215251e-004
a1 = 3.140678e-004
a2 = -5.109600e-006
a3 = 2.167431e-007

BATH TEMP (° C)	INSTRUMENT OUTPUT (counts)	INST TEMP (° C)	RESIDUAL (° C)
1.0000	569290.2	1.0001	0.0001
4.5000	486428.7	4.4998	-0.0002
15.0000	309484.1	15.0002	0.0002
18.5000	267864.7	18.5000	0.0000
24.0000	214768.2	23.9999	-0.0001
29.0000	176776.6	28.9999	-0.0001
32.5000	154775.2	32.5001	0.0001

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

