

Sea-Bird Electronics, Inc.

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SENSOR SERIAL NUMBER: 1806
CALIBRATION DATE: 19-Nov-15

SBE 37 TEMPERATURE CALIBRATION DATA
ITS-90 TEMPERATURE SCALE

COEFFICIENTS:

a0 = -4.871584e-006
a1 = 2.810453e-004
a2 = -2.997113e-006
a3 = 1.724012e-007

BATH TEMP (° C)	INSTRUMENT OUTPUT (counts)	INST TEMP (° C)	RESIDUAL (° C)
1.0000	682510.2	1.0000	-0.0000
4.5000	583458.2	4.5000	0.0000
15.0000	371611.3	14.9999	-0.0001
18.5000	321690.8	18.5002	0.0002
24.0000	257959.6	23.9999	-0.0001
29.0000	212315.7	29.0000	0.0000
32.5001	185869.6	32.5001	-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

