

Sea-Bird Electronics, Inc.

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SENSOR SERIAL NUMBER: 0815
CALIBRATION DATE: 08-Dec-16

SBE 37 TEMPERATURE CALIBRATION DATA
ITS-90 TEMPERATURE SCALE

COEFFICIENTS:

a0 = -2.796483e-004
a1 = 3.281577e-004
a2 = -5.833869e-006
a3 = 2.464629e-007

BATH TEMP (° C)	INSTRUMENT OUTPUT (counts)	INST TEMP (° C)	RESIDUAL (° C)
1.0000	627207.8	1.0000	-0.0000
4.5000	539045.6	4.5000	0.0000
15.0000	348698.6	14.9999	-0.0001
18.5000	303383.1	18.5001	0.0001
24.0000	245183.0	23.9999	-0.0001
29.0000	203211.9	29.0001	0.0001
32.5000	178759.6	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

