

Sea-Bird Electronics, Inc.

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SENSOR SERIAL NUMBER: 1851

CALIBRATION DATE: 29-Sep-16

SBE 37 TEMPERATURE CALIBRATION DATA

ITS-90 TEMPERATURE SCALE

COEFFICIENTS:

a0 = -2.623506e-005

a1 = 2.828750e-004

a2 = -2.884540e-006

a3 = 1.717528e-007

BATH TEMP (° C)	INSTRUMENT OUTPUT (counts)	INST TEMP (° C)	RESIDUAL (° C)
0.9999	634036.9	0.9999	0.0000
4.5000	543138.8	4.5000	-0.0000
15.0000	348006.7	15.0000	-0.0000
18.4999	301841.5	18.5000	0.0001
23.9999	242758.5	23.9999	0.0000
29.0000	200330.2	28.9999	-0.0001
32.5000	175691.5	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

