

Sea-Bird Electronics, Inc.

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SENSOR SERIAL NUMBER: 2341
CALIBRATION DATE: 10-Feb-16

SBE 37 TEMPERATURE CALIBRATION DATA
ITS-90 TEMPERATURE SCALE

COEFFICIENTS:

a0 = -3.678578e-004
a1 = 3.710487e-004
a2 = -1.066547e-005
a3 = 3.890982e-007

BATH TEMP (° C)	INSTRUMENT OUTPUT (counts)	INST TEMP (° C)	RESIDUAL (° C)
1.0000	711851.1	1.0001	0.0001
4.5000	609047.6	4.4999	-0.0001
14.9999	388497.6	15.0000	0.0001
18.5000	336400.3	18.5000	-0.0000
23.9999	269816.1	23.9999	-0.0000
29.0000	222090.4	28.9999	-0.0001
32.5000	194424.5	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

