

Sea-Bird Electronics, Inc.

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SENSOR SERIAL NUMBER: 3423
CALIBRATION DATE: 23-Nov-16

SBE 37 TEMPERATURE CALIBRATION DATA
ITS-90 TEMPERATURE SCALE

COEFFICIENTS:

a0 = -1.817015e-004
a1 = 2.961838e-004
a2 = -3.553625e-006
a3 = 1.804608e-007

BATH TEMP (° C)	INSTRUMENT OUTPUT (counts)	INST TEMP (° C)	RESIDUAL (° C)
1.0000	818531.9	1.0001	0.0001
4.4999	701933.6	4.4998	-0.0001
15.0000	451213.2	15.0000	-0.0000
18.5000	391788.8	18.5001	0.0001
24.0000	315655.4	24.0001	0.0001
29.0000	260914.4	28.9997	-0.0003
32.5000	229084.4	32.5002	0.0002

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

