

Sea-Bird Electronics, Inc.

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SENSOR SERIAL NUMBER: 2322
CALIBRATION DATE: 28-Jan-17

SBE 37 TEMPERATURE CALIBRATION DATA
ITS-90 TEMPERATURE SCALE

COEFFICIENTS:

a0 = -1.967145e-004
a1 = 3.289244e-004
a2 = -6.216632e-006
a3 = 2.486488e-007

BATH TEMP (° C)	INSTRUMENT OUTPUT (counts)	INST TEMP (° C)	RESIDUAL (° C)
1.0000	566349.3	1.0000	-0.0000
4.5000	484493.9	4.5000	0.0000
14.9999	309310.8	14.9999	0.0000
18.5000	267999.0	18.5000	-0.0000
24.0000	215223.8	24.0000	-0.0000
29.0000	177402.3	29.0001	0.0001
32.5000	155476.2	32.4999	-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

