

Sea-Bird Electronics, Inc.

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SENSOR SERIAL NUMBER: 3318
CALIBRATION DATE: 07-Dec-16

SBE 37 TEMPERATURE CALIBRATION DATA
ITS-90 TEMPERATURE SCALE

COEFFICIENTS:

a0 = -6.730058e-005

a1 = 2.849887e-004

a2 = -2.897250e-006

a3 = 1.726092e-007

BATH TEMP (° C)	INSTRUMENT OUTPUT (counts)	INST TEMP (° C)	RESIDUAL (° C)
1.0000	662216.4	1.0000	-0.0000
4.5000	568034.9	4.5000	0.0000
15.0000	365365.8	14.9999	-0.0001
18.5000	317288.6	18.5001	0.0001
24.0000	255667.6	24.0000	-0.0000
29.0000	211337.2	29.0000	0.0000
32.5000	185559.4	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

