

Sea-Bird Electronics, Inc.

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SENSOR SERIAL NUMBER: 2022
CALIBRATION DATE: 22-Nov-15

SBE 37 TEMPERATURE CALIBRATION DATA
ITS-90 TEMPERATURE SCALE

COEFFICIENTS:

a0 = -5.091717e-005

a1 = 2.867218e-004

a2 = -3.310406e-006

a3 = 1.812289e-007

BATH TEMP (° C)	INSTRUMENT OUTPUT (counts)	INST TEMP (° C)	RESIDUAL (° C)
1.0000	693965.2	1.0000	0.0000
4.5000	593934.9	4.5000	-0.0000
15.0000	379538.6	15.0001	0.0001
18.5000	328910.0	18.4999	-0.0001
24.0000	264178.3	23.9999	-0.0001
29.0000	217747.8	29.0002	0.0002
32.5000	190817.5	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

