

Sea-Bird Electronics, Inc.

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SENSOR SERIAL NUMBER: 3760
CALIBRATION DATE: 07-Oct-16

SBE 39 TEMPERATURE CALIBRATION DATA
ITS-90 TEMPERATURE SCALE

COEFFICIENTS:

a0 = -3.136467e-006
a1 = 2.783728e-004
a2 = -2.651149e-006
a3 = 1.587484e-007

BATH TEMP (° C)	INSTRUMENT OUTPUT (counts)	INST TEMP (° C)	RESIDUAL (° C)
-1.5000	777880.8	-1.5000	0.0000
1.0000	693849.0	1.0000	-0.0000
4.5000	592956.5	4.5000	-0.0000
8.0000	508414.5	8.0000	-0.0000
11.5000	437329.6	11.5000	0.0000
15.0000	377361.1	15.0000	0.0000
18.5000	326605.3	18.5000	0.0000
22.0000	283511.7	22.0000	-0.0000
25.5000	246810.6	25.5000	-0.0000
29.0000	215459.9	29.0000	-0.0000
32.5000	188601.2	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

