

Sea-Bird Electronics, Inc.

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SENSOR SERIAL NUMBER: 0986
CALIBRATION DATE: 01-Dec-15

SBE 39 TEMPERATURE CALIBRATION DATA
ITS-90 TEMPERATURE SCALE

COEFFICIENTS:

a0 = -2.434058e-004
a1 = 3.186357e-004
a2 = -5.290458e-006
a3 = 2.213969e-007

BATH TEMP (° C)	INSTRUMENT OUTPUT (counts)	INST TEMP (° C)	RESIDUAL (° C)
-1.5000	841471.0	-1.4999	0.0001
1.0000	751680.2	1.0000	-0.0000
4.5000	643699.0	4.4999	-0.0001
8.0000	553047.0	8.0000	-0.0000
11.5000	476685.7	11.5001	0.0001
15.0000	412151.6	15.0001	0.0001
18.5000	357436.7	18.5001	0.0001
22.0000	310900.9	22.0000	-0.0000
25.5000	271199.9	25.4999	-0.0001
29.0000	237228.8	28.9999	-0.0001
32.5000	208075.4	32.5001	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

