

Sea-Bird Electronics, Inc.

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SENSOR SERIAL NUMBER: 0987
CALIBRATION DATE: 01-Dec-15

SBE 39 TEMPERATURE CALIBRATION DATA
ITS-90 TEMPERATURE SCALE

COEFFICIENTS:

a0 = -2.435940e-004
a1 = 3.173199e-004
a2 = -5.204357e-006
a3 = 2.176170e-007

BATH TEMP (° C)	INSTRUMENT OUTPUT (counts)	INST TEMP (° C)	RESIDUAL (° C)
-1.5000	875321.4	-1.4999	0.0001
1.0000	781686.7	1.0000	-0.0000
4.5000	669123.3	4.4999	-0.0001
8.0000	574665.4	8.0000	-0.0000
11.5000	495130.6	11.5001	0.0001
15.0000	427941.5	15.0001	0.0001
18.5000	370996.1	18.5001	0.0001
22.0000	322582.3	22.0000	-0.0000
25.5000	281293.8	25.4999	-0.0001
29.0000	245976.8	28.9999	-0.0001
32.5000	215678.9	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

