

Sea-Bird Electronics, Inc.

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SENSOR SERIAL NUMBER: 1807
CALIBRATION DATE: 01-Dec-15

SBE 39 TEMPERATURE CALIBRATION DATA
ITS-90 TEMPERATURE SCALE

COEFFICIENTS:

a0 = -1.602589e-006
a1 = 2.755712e-004
a2 = -2.261310e-006
a3 = 1.560750e-007

BATH TEMP (° C)	INSTRUMENT OUTPUT (counts)	INST TEMP (° C)	RESIDUAL (° C)
-1.5000	707174.6	-1.5000	0.0000
1.0000	632109.7	1.0000	-0.0000
4.5000	541753.1	4.4999	-0.0001
8.0000	465814.1	8.0000	-0.0000
11.5000	401778.2	11.5001	0.0001
15.0000	347605.9	15.0001	0.0001
18.5000	301631.0	18.5000	0.0000
22.0000	262491.5	22.0000	-0.0000
25.5000	229070.9	25.4999	-0.0001
29.0000	200449.7	28.9999	-0.0001
32.5000	175868.5	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

