

Sea-Bird Electronics, Inc.

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SENSOR SERIAL NUMBER: 1603
CALIBRATION DATE: 01-Dec-15

SBE 39 TEMPERATURE CALIBRATION DATA
ITS-90 TEMPERATURE SCALE

COEFFICIENTS:

a0 = -2.079665e-004
a1 = 3.056621e-004
a2 = -4.305381e-006
a3 = 2.015895e-007

BATH TEMP (° C)	INSTRUMENT OUTPUT (counts)	INST TEMP (° C)	RESIDUAL (° C)
-1.5000	865600.4	-1.5000	0.0000
1.0000	774121.3	1.0000	-0.0000
4.5000	663948.1	4.4999	-0.0001
8.0000	571303.5	8.0000	-0.0000
11.5000	493136.7	11.5000	0.0000
15.0000	426971.8	15.0000	0.0000
18.5000	370786.4	18.5001	0.0001
22.0000	322929.5	22.0000	-0.0000
25.5000	282041.9	25.4999	-0.0001
29.0000	247006.3	28.9999	-0.0001
32.5000	216898.5	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

