

Sea-Bird Electronics, Inc.

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SENSOR SERIAL NUMBER: 1636
CALIBRATION DATE: 01-Dec-15

SBE 39 TEMPERATURE CALIBRATION DATA
ITS-90 TEMPERATURE SCALE

COEFFICIENTS:

a0 = -1.908126e-004
a1 = 3.046893e-004
a2 = -4.240091e-006
a3 = 2.010313e-007

BATH TEMP (° C)	INSTRUMENT OUTPUT (counts)	INST TEMP (° C)	RESIDUAL (° C)
-1.5000	824568.2	-1.4999	0.0001
1.0000	737455.9	1.0000	-0.0000
4.5000	632536.5	4.4999	-0.0001
8.0000	544303.0	8.0000	-0.0000
11.5000	469852.9	11.5001	0.0001
15.0000	406831.1	15.0001	0.0001
18.5000	353312.4	18.5000	0.0000
22.0000	307723.2	22.0000	-0.0000
25.5000	268771.6	25.4999	-0.0001
29.0000	235393.0	28.9999	-0.0001
32.5000	206707.8	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

