

Sea-Bird Electronics, Inc.

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SENSOR SERIAL NUMBER: 0805
CALIBRATION DATE: 25-Nov-15

SBE 39 TEMPERATURE CALIBRATION DATA
ITS-90 TEMPERATURE SCALE

COEFFICIENTS:

a0 = -5.647305e-006
a1 = 2.742649e-004
a2 = -2.267125e-006
a3 = 1.559929e-007

BATH TEMP (° C)	INSTRUMENT OUTPUT (counts)	INST TEMP (° C)	RESIDUAL (° C)
-1.5000	763568.5	-1.4999	0.0001
1.0000	682290.0	1.0000	-0.0000
4.5000	584487.1	4.4999	-0.0001
8.0000	502324.6	7.9999	-0.0001
11.5000	433068.7	11.5001	0.0001
15.0000	374503.7	15.0001	0.0001
18.5000	324822.6	18.5001	0.0001
22.0000	282545.3	22.0000	-0.0000
25.5000	246460.2	25.4999	-0.0001
29.0000	215569.6	28.9999	-0.0001
32.5000	189048.8	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

