

Sea-Bird Electronics, Inc.

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SENSOR SERIAL NUMBER: 0581
CALIBRATION DATE: 25-Nov-15

SBE 39 TEMPERATURE CALIBRATION DATA
ITS-90 TEMPERATURE SCALE

COEFFICIENTS:

a0 = 2.629102e-005
a1 = 2.714991e-004
a2 = -2.293596e-006
a3 = 1.547976e-007

BATH TEMP (° C)	INSTRUMENT OUTPUT (counts)	INST TEMP (° C)	RESIDUAL (° C)
-1.5000	798960.4	-1.5000	0.0000
1.0000	712884.4	1.0000	-0.0000
4.5000	609480.0	4.4999	-0.0001
8.0000	522779.4	8.0000	-0.0000
11.5000	449838.6	11.5000	0.0000
15.0000	388272.3	15.0001	0.0001
18.5000	336138.9	18.5000	0.0000
22.0000	291855.5	22.0000	-0.0000
25.5000	254124.8	25.4999	-0.0001
29.0000	221881.9	29.0000	-0.0000
32.5000	194249.0	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

