

Sea-Bird Electronics, Inc.

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SENSOR SERIAL NUMBER: 1422
CALIBRATION DATE: 13-Oct-16

SBE 39 TEMPERATURE CALIBRATION DATA
ITS-90 TEMPERATURE SCALE

COEFFICIENTS:

a0 = -3.366439e-005
a1 = 2.760054e-004
a2 = -2.423069e-006
a3 = 1.554423e-007

BATH TEMP (° C)	INSTRUMENT OUTPUT (counts)	INST TEMP (° C)	RESIDUAL (° C)
-1.5000	857609.7	-1.4999	0.0001
1.0000	765778.7	1.0000	-0.0000
4.5000	655375.5	4.4999	-0.0001
8.0000	562722.7	8.0000	-0.0000
11.5000	484704.6	11.5001	0.0001
15.0000	418793.7	15.0001	0.0001
18.5000	362932.2	18.5000	-0.0000
22.0000	315437.6	22.0000	-0.0000
25.5000	274935.4	25.4999	-0.0001
29.0000	240293.0	29.0000	-0.0000
32.5000	210577.8	32.5000	0.0000

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

