

Sea-Bird Electronics, Inc.

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SENSOR SERIAL NUMBER: 0511
CALIBRATION DATE: 06-Oct-16

SBE 39 TEMPERATURE CALIBRATION DATA
ITS-90 TEMPERATURE SCALE

COEFFICIENTS:

a0 = -2.867034e-005
a1 = 2.819496e-004
a2 = -2.781418e-006
a3 = 1.709934e-007

BATH TEMP (° C)	INSTRUMENT OUTPUT (counts)	INST TEMP (° C)	RESIDUAL (° C)
-1.5000	704964.2	-1.5000	0.0000
1.0000	630240.3	1.0000	-0.0000
4.5000	540271.3	4.5000	-0.0000
8.0001	464636.6	8.0001	-0.0000
11.5000	400844.5	11.5000	0.0000
15.0000	346863.2	15.0000	0.0000
18.5000	301039.8	18.5000	0.0000
22.0000	262021.5	22.0000	-0.0000
25.5000	228698.1	25.4999	-0.0001
29.0000	200155.0	28.9999	-0.0001
32.5000	175636.7	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

