

Sea-Bird Electronics, Inc.

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SENSOR SERIAL NUMBER: 1805
CALIBRATION DATE: 07-Oct-16

SBE 39 TEMPERATURE CALIBRATION DATA
ITS-90 TEMPERATURE SCALE

COEFFICIENTS:

a0 = 2.137350e-005
a1 = 2.680543e-004
a2 = -2.032808e-006
a3 = 1.381143e-007

BATH TEMP (° C)	INSTRUMENT OUTPUT (counts)	INST TEMP (° C)	RESIDUAL (° C)
-1.5000	934566.8	-1.5000	0.0000
1.0000	832428.8	1.0000	0.0000
4.5000	710008.3	4.5000	-0.0000
8.0000	607627.6	8.0000	-0.0000
11.5000	521707.2	11.5000	0.0000
15.0000	449357.2	15.0000	0.0000
18.5000	388232.8	18.5000	0.0000
22.0000	336427.5	22.0000	-0.0000
25.5000	292382.0	25.5000	-0.0000
29.0000	254821.1	28.9999	-0.0001
32.5000	222694.0	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

