

Sea-Bird Electronics, Inc.

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SENSOR SERIAL NUMBER: 3766
CALIBRATION DATE: 21-Nov-15

SBE 37 TEMPERATURE CALIBRATION DATA
ITS-90 TEMPERATURE SCALE

COEFFICIENTS:

a0 = -6.713654e-005
a1 = 2.955818e-004
a2 = -3.840384e-006
a3 = 1.979446e-007

BATH TEMP (° C)	INSTRUMENT OUTPUT (counts)	INST TEMP (° C)	RESIDUAL (° C)
1.0000	591559.8	1.0000	0.0000
4.5000	506916.7	4.5000	-0.0000
15.0000	325092.7	15.0001	0.0001
18.5001	282051.5	18.4999	-0.0002
24.0000	226942.7	24.0001	0.0001
29.0000	187356.6	28.9999	-0.0001
32.5000	164361.0	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

