

Sea-Bird Electronics, Inc.

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SENSOR SERIAL NUMBER: 0826
CALIBRATION DATE: 09-Dec-16

SBE 37 TEMPERATURE CALIBRATION DATA
ITS-90 TEMPERATURE SCALE

COEFFICIENTS:

a0 = -7.335794e-005
a1 = 2.901505e-004
a2 = -3.566385e-006
a3 = 1.832241e-007

BATH TEMP (° C)	INSTRUMENT OUTPUT (counts)	INST TEMP (° C)	RESIDUAL (° C)
1.0000	737244.8	0.9999	-0.0001
4.4999	630339.6	4.5000	0.0001
15.0000	401682.5	14.9999	-0.0001
18.5000	347795.7	18.5000	-0.0000
24.0000	278984.5	24.0001	0.0001
29.0000	229700.4	29.0001	0.0001
32.5000	201141.5	32.4999	-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

