

Sea-Bird Electronics, Inc.

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SENSOR SERIAL NUMBER: 0813
CALIBRATION DATE: 08-Dec-16

SBE 37 TEMPERATURE CALIBRATION DATA
ITS-90 TEMPERATURE SCALE

COEFFICIENTS:

a0 = -3.291053e-004
a1 = 3.360691e-004
a2 = -6.459046e-006
a3 = 2.611905e-007

BATH TEMP (° C)	INSTRUMENT OUTPUT (counts)	INST TEMP (° C)	RESIDUAL (° C)
1.0000	670411.8	1.0000	-0.0000
4.5000	576069.7	4.5000	0.0000
15.0000	372443.3	15.0000	-0.0000
18.5000	323987.1	18.5000	-0.0000
24.0000	261762.3	24.0000	0.0000
29.0000	216903.9	29.0000	0.0000
32.5000	190774.1	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

