

Sea-Bird Electronics, Inc.

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SENSOR SERIAL NUMBER: 0811
CALIBRATION DATE: 08-Dec-16

SBE 37 TEMPERATURE CALIBRATION DATA
ITS-90 TEMPERATURE SCALE

COEFFICIENTS:

a0 = 2.266301e-006
a1 = 2.804467e-004
a2 = -2.785671e-006
a3 = 1.646195e-007

BATH TEMP (° C)	INSTRUMENT OUTPUT (counts)	INST TEMP (° C)	RESIDUAL (° C)
1.0000	641195.6	1.0000	-0.0000
4.5000	548260.0	4.5000	0.0000
15.0000	349459.0	15.0000	-0.0000
18.5000	302602.2	18.5000	0.0000
24.0000	242764.4	24.0000	0.0000
29.0000	199900.5	29.0000	-0.0000
32.5000	175057.8	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

