

Sea-Bird Electronics, Inc.

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SENSOR SERIAL NUMBER: 2325

CALIBRATION DATE: 29-Sep-16

SBE 37 TEMPERATURE CALIBRATION DATA

ITS-90 TEMPERATURE SCALE

COEFFICIENTS:

a0 = -5.013852e-004

a1 = 4.103764e-004

a2 = -1.427910e-005

a3 = 5.004602e-007

BATH TEMP (° C)	INSTRUMENT OUTPUT (counts)	INST TEMP (° C)	RESIDUAL (° C)
0.9999	682055.0	1.0000	0.0001
4.5000	584160.8	4.4999	-0.0001
15.0000	373504.9	15.0001	0.0001
18.4999	323606.7	18.5000	0.0001
23.9999	259747.0	23.9999	-0.0000
29.0000	213913.6	28.9998	-0.0002
32.5000	187318.9	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

