

Sea-Bird Electronics, Inc.

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SENSOR SERIAL NUMBER: 2357

CALIBRATION DATE: 30-Sep-16

SBE 37 TEMPERATURE CALIBRATION DATA

ITS-90 TEMPERATURE SCALE

COEFFICIENTS:

a0 = -1.041605e-004

a1 = 3.006700e-004

a2 = -4.258001e-006

a3 = 2.019077e-007

BATH TEMP (° C)	INSTRUMENT OUTPUT (counts)	INST TEMP (° C)	RESIDUAL (° C)
1.0000	663535.0	1.0000	0.0000
4.5000	567698.7	4.4999	-0.0001
15.0000	362465.9	15.0000	-0.0000
18.5000	314039.6	18.5001	0.0001
24.0000	252160.1	24.0000	0.0000
29.0000	207802.6	28.9999	-0.0001
32.5000	182078.2	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

