

Sea-Bird Electronics, Inc.

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SENSOR SERIAL NUMBER: 2331
CALIBRATION DATE: 20-Nov-15

SBE 37 TEMPERATURE CALIBRATION DATA
ITS-90 TEMPERATURE SCALE

COEFFICIENTS:

a0 = -3.368413e-004
a1 = 3.813653e-004
a2 = -1.345130e-005
a3 = 5.277923e-007

BATH TEMP (° C)	INSTRUMENT OUTPUT (counts)	INST TEMP (° C)	RESIDUAL (° C)
1.0000	703658.1	0.9999	-0.0001
4.5000	605179.2	4.5002	0.0002
15.0000	391100.4	14.9998	-0.0002
18.5000	339850.8	18.5000	-0.0000
24.0000	273895.3	24.0001	0.0001
29.0000	226270.9	29.0001	0.0001
32.5000	198515.8	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

