

Sea-Bird Electronics, Inc.

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SENSOR SERIAL NUMBER: 4254
CALIBRATION DATE: 16-Dec-16

SBE 37 TEMPERATURE CALIBRATION DATA
ITS-90 TEMPERATURE SCALE

COEFFICIENTS:

a0 = -3.058338e-005
a1 = 2.781951e-004
a2 = -2.447748e-006
a3 = 1.587365e-007

BATH TEMP (° C)	INSTRUMENT OUTPUT (counts)	INST TEMP (° C)	RESIDUAL (° C)
0.9999	677923.1	0.9999	0.0000
4.4999	580903.9	4.4999	-0.0000
15.0000	372531.4	15.0000	-0.0000
18.5000	323207.6	18.5001	0.0001
24.0000	260063.3	24.0000	-0.0000
29.0000	214699.9	29.0000	-0.0000
32.5000	188348.9	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

