

Sea-Bird Electronics, Inc.

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SENSOR SERIAL NUMBER: 3424
CALIBRATION DATE: 23-Nov-16

SBE 37 TEMPERATURE CALIBRATION DATA
ITS-90 TEMPERATURE SCALE

COEFFICIENTS:

a0 = -2.832170e-004
a1 = 3.171738e-004
a2 = -5.143691e-006
a3 = 2.214160e-007

BATH TEMP (° C)	INSTRUMENT OUTPUT (counts)	INST TEMP (° C)	RESIDUAL (° C)
1.0000	838176.8	1.0000	0.0000
4.4999	719013.7	4.4999	-0.0000
15.0000	462607.4	15.0000	0.0000
18.5000	401797.7	18.5000	0.0000
24.0000	323857.2	24.0001	0.0001
29.0000	267796.2	28.9998	-0.0002
32.5000	235192.5	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

