

Sea-Bird Electronics, Inc.

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SENSOR SERIAL NUMBER: 0219
CALIBRATION DATE: 15-Feb-17

SBE 45 TEMPERATURE CALIBRATION DATA
ITS-90 TEMPERATURE SCALE

COEFFICIENTS:

a0 = -3.315764×10^{-5}

a1 = 2.856102×10^{-4}

a2 = -3.266889×10^{-6}

a3 = 1.740111×10^{-7}

BATH TEMP (° C)	INSTRUMENT OUTPUT (counts)	INST TEMP (° C)	RESIDUAL (° C)
1.0000	710500.3	1.0000	0.0000
4.5000	606903.8	4.5000	-0.0000
15.0000	385711.6	14.9999	-0.0001
18.5000	333683.5	18.5001	0.0001
24.0000	267324.5	24.0000	-0.0000
29.0000	219853.6	28.9999	-0.0001
32.5000	192370.2	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

