

Sea-Bird Electronics, Inc.

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SENSOR SERIAL NUMBER: 0093
CALIBRATION DATE: 12-Feb-17

SBE 45 TEMPERATURE CALIBRATION DATA
ITS-90 TEMPERATURE SCALE

COEFFICIENTS:

a0 = -4.764402×10^{-6}

a1 = 2.804630×10^{-4}

a2 = -2.766545×10^{-6}

a3 = 1.659655×10^{-7}

BATH TEMP (° C)	INSTRUMENT OUTPUT (counts)	INST TEMP (° C)	RESIDUAL (° C)
1.0000	641576.4	1.0000	0.0000
4.5000	548949.3	4.5000	-0.0000
15.0000	350550.1	15.0000	-0.0000
18.5000	303724.2	18.5001	0.0001
24.0000	243880.6	23.9999	-0.0001
29.0000	200971.0	29.0001	0.0001
32.5000	176087.1	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

