

Sea-Bird Electronics, Inc.

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SENSOR SERIAL NUMBER: 0455
CALIBRATION DATE: 15-Dec-15

SBE 45 TEMPERATURE CALIBRATION DATA
ITS-90 TEMPERATURE SCALE

COEFFICIENTS:

a0 = 2.758301e-006
a1 = 2.808424e-004
a2 = -2.930476e-006
a3 = 1.647586e-007

BATH TEMP (° C)	INSTRUMENT OUTPUT (counts)	INST TEMP (° C)	RESIDUAL (° C)
1.0000	686259.6	1.0001	0.0001
4.5000	585886.1	4.4999	-0.0001
15.0000	371781.9	15.0001	0.0001
18.5000	321480.9	18.5001	0.0001
24.0000	257360.3	23.9998	-0.0002
28.9999	211520.7	29.0000	0.0001
32.5000	184998.2	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

