

Sea-Bird Electronics, Inc.

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SENSOR SERIAL NUMBER: 0155
CALIBRATION DATE: 14-Feb-17

SBE 45 TEMPERATURE CALIBRATION DATA
ITS-90 TEMPERATURE SCALE

COEFFICIENTS:

a0 = 1.182235e-005
a1 = 2.705288e-004
a2 = -1.908922e-006
a3 = 1.446935e-007

BATH TEMP (° C)	INSTRUMENT OUTPUT (counts)	INST TEMP (° C)	RESIDUAL (° C)
1.0000	671979.6	1.0000	0.0000
4.4999	575555.3	4.4999	-0.0000
15.0000	368627.5	15.0000	-0.0000
18.5000	319689.0	18.5000	0.0000
24.0000	257066.4	24.0000	0.0000
29.0000	212104.9	29.0000	-0.0000
32.5000	185998.8	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

