

Sea-Bird Electronics, Inc.

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SENSOR SERIAL NUMBER: 0455
CALIBRATION DATE: 13-Apr-17

SBE 45 TEMPERATURE CALIBRATION DATA
ITS-90 TEMPERATURE SCALE

COEFFICIENTS:

a0 = -2.562715e-005
a1 = 2.874360e-004
a2 = -3.442500e-006
a3 = 1.780572e-007

BATH TEMP (° C)	INSTRUMENT OUTPUT (counts)	INST TEMP (° C)	RESIDUAL (° C)
1.0000	686195.4	1.0000	-0.0000
4.5000	585834.7	4.5000	0.0000
14.9999	371770.4	14.9999	-0.0000
18.5000	321471.5	18.5000	0.0000
24.0001	257355.7	24.0000	-0.0001
28.9999	211522.3	29.0000	0.0001
32.5000	185004.2	32.4999	-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

