

Sea-Bird Electronics, Inc.

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SENSOR SERIAL NUMBER: 0453
CALIBRATION DATE: 16-Jan-16

SBE 45 TEMPERATURE CALIBRATION DATA
ITS-90 TEMPERATURE SCALE

COEFFICIENTS:

a0 = -3.190047e-005
a1 = 2.783865e-004
a2 = -2.804655e-006
a3 = 1.577560e-007

BATH TEMP (° C)	INSTRUMENT OUTPUT (counts)	INST TEMP (° C)	RESIDUAL (° C)
1.0000	850131.2	1.0000	-0.0000
4.5000	725260.2	4.5000	0.0000
15.0000	459284.4	15.0000	0.0000
18.5000	396885.9	18.5000	-0.0000
24.0000	317405.2	24.0001	0.0001
29.0000	260645.4	28.9999	-0.0001
32.5000	227827.1	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

