

Sea-Bird Electronics, Inc.

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SENSOR SERIAL NUMBER: 0417

CALIBRATION DATE: 29-Sep-15

SBE 37 TEMPERATURE CALIBRATION DATA

ITS-90 TEMPERATURE SCALE

COEFFICIENTS:

a0 = -2.434763e-005

a1 = 2.831242e-004

a2 = -3.053104e-006

a3 = 1.711650e-007

BATH TEMP (ITS-90)	INSTRUMENT OUTPUT	INST TEMP (ITS-90)	RESIDUAL (ITS-90)
1.0000	693395.0	1.0001	0.0001
4.5000	592781.1	4.4999	-0.0001
15.0000	377604.6	15.0001	0.0001
18.4999	326910.1	18.4999	0.0000
24.0000	262181.2	24.0000	-0.0000
29.0000	215826.4	28.9999	-0.0001
32.4999	188966.6	32.5000	0.0001

Temperature ITS-90 = $1/\{a_0 + a_1[\ln(n)] + a_2[\ln^2(n)] + a_3[\ln^3(n)]\} - 273.15$ (°C)

Residual = instrument temperature - bath temperature

n = instrument output

