

Sea-Bird Electronics, Inc.

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SENSOR SERIAL NUMBER: 0470
CALIBRATION DATE: 29-Oct-13

SBE 37 TEMPERATURE CALIBRATION DATA
ITS-90 TEMPERATURE SCALE

ITS-90 COEFFICIENTS

a0 = -1.166716e-004
a1 = 3.001003e-004
a2 = -4.276496e-006
a3 = 2.040884e-007

BATH TEMP (ITS-90)	INSTRUMENT OUTPUT	INST TEMP (ITS-90)	RESIDUAL (ITS-90)
1.0000	705697.3	1.0001	0.0001
4.5000	603960.6	4.4999	-0.0001
15.0000	385922.5	15.0001	0.0001
18.5000	334441.9	18.5000	0.0000
24.0000	268630.3	23.9999	-0.0001
29.0000	221430.8	29.0000	0.0000
32.5000	194052.6	32.5000	0.0000

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

