

SEA-BIRD ELECTRONICS, INC.

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SENSOR SERIAL NUMBER: 0385
CALIBRATION DATE: 01-Dec-10

SBE 37 TEMPERATURE CALIBRATION DATA
ITS-90 TEMPERATURE SCALE

ITS-90 COEFFICIENTS

a0 = 1.193413e-004
a1 = 2.690319e-004
a2 = -2.505382e-006
a3 = 1.671037e-007

BATH TEMP (ITS-90)	INSTRUMENT OUTPUT	INST TEMP (ITS-90)	RESIDUAL (ITS-90)
0.9999	597639.5	0.9999	-0.0000
4.4999	510126.0	4.4999	0.0000
15.0000	323389.8	15.0000	-0.0000
18.5000	279507.3	18.5000	-0.0000
24.0000	223568.7	24.0001	0.0001
29.0000	183589.2	28.9999	-0.0001
32.5000	160461.1	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

