

SEA-BIRD ELECTRONICS, INC.

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SENSOR SERIAL NUMBER: 2002
CALIBRATION DATE: 02-Jul-10

SBE 37 TEMPERATURE CALIBRATION DATA
ITS-90 TEMPERATURE SCALE

ITS-90 COEFFICIENTS

a0 = -6.265753e-005
a1 = 2.974629e-004
a2 = -4.411227e-006
a3 = 2.093149e-007

BATH TEMP (ITS-90)	INSTRUMENT OUTPUT	INST TEMP (ITS-90)	RESIDUAL (ITS-90)
1.0000	689416.7	1.0001	0.0001
4.5000	588884.1	4.4999	-0.0001
15.0000	374146.1	15.0001	0.0001
18.5000	323630.7	18.5000	-0.0000
24.0000	259192.7	24.0000	-0.0000
29.0000	213099.4	29.0000	-0.0000
32.5000	186416.8	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

