

# SEA-BIRD ELECTRONICS, INC.

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SENSOR SERIAL NUMBER: 2325  
CALIBRATION DATE: 05-Jan-11

SBE 37 TEMPERATURE CALIBRATION DATA  
ITS-90 TEMPERATURE SCALE

## ITS-90 COEFFICIENTS

a0 = -4.414726e-004  
a1 = 3.965102e-004  
a2 = -1.320996e-005  
a3 = 4.729889e-007

BATH TEMP (ITS-90)	INSTRUMENT OUTPUT	INST TEMP (ITS-90)	RESIDUAL (ITS-90)
1.0000	682093.3	1.0001	0.0001
4.5000	584193.7	4.4999	-0.0001
14.9999	373528.5	15.0000	0.0001
18.5000	323624.9	18.5001	0.0001
24.0000	259760.6	23.9999	-0.0001
29.0000	213920.3	28.9999	-0.0001
32.5000	187322.0	32.5001	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

