

# SEA-BIRD ELECTRONICS, INC.

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SENSOR SERIAL NUMBER: 2341  
CALIBRATION DATE: 21-Jan-11

SBE 37 TEMPERATURE CALIBRATION DATA  
ITS-90 TEMPERATURE SCALE

## ITS-90 COEFFICIENTS

a0 = -3.938220e-004  
a1 = 3.772285e-004  
a2 = -1.115468e-005  
a3 = 4.019791e-007

BATH TEMP (ITS-90)	INSTRUMENT OUTPUT	INST TEMP (ITS-90)	RESIDUAL (ITS-90)
0.9999	711863.2	0.9999	0.0000
4.5000	609056.1	4.4999	-0.0001
14.9999	388501.3	14.9999	0.0000
18.5000	336400.3	18.5000	0.0000
23.9999	269813.6	23.9999	-0.0000
28.9999	222087.5	28.9998	-0.0001
32.5001	194420.0	32.5001	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

