

# SEA-BIRD ELECTRONICS, INC.

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SENSOR SERIAL NUMBER: 2337  
CALIBRATION DATE: 19-Aug-11

SBE 37 TEMPERATURE CALIBRATION DATA  
ITS-90 TEMPERATURE SCALE

## ITS-90 COEFFICIENTS

a0 = 7.552626e-006  
a1 = 2.798759e-004  
a2 = -3.218803e-006  
a3 = 1.825480e-007

BATH TEMP (ITS-90)	INSTRUMENT OUTPUT	INST TEMP (ITS-90)	RESIDUAL (ITS-90)
1.0000	727554.8	1.0000	-0.0000
4.4999	621587.9	4.4999	0.0000
15.0000	395105.6	15.0000	0.0000
18.5000	341790.5	18.5000	-0.0000
24.0000	273759.0	24.0000	-0.0000
29.0000	225077.1	29.0000	0.0000
32.5000	196890.2	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

