

# SEA-BIRD ELECTRONICS, INC.

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SENSOR SERIAL NUMBER: 1678  
CALIBRATION DATE: 21-Dec-10

SBE 37 TEMPERATURE CALIBRATION DATA  
ITS-90 TEMPERATURE SCALE

## ITS-90 COEFFICIENTS

a0 = -3.972924e-005  
a1 = 2.792327e-004  
a2 = -2.694246e-006  
a3 = 1.635968e-007

BATH TEMP (ITS-90)	INSTRUMENT OUTPUT	INST TEMP (ITS-90)	RESIDUAL (ITS-90)
1.0000	744961.8	1.0000	-0.0000
4.5000	637606.2	4.5000	0.0000
15.0000	407519.6	14.9999	-0.0001
18.5000	353176.3	18.5000	0.0000
23.9999	283698.4	24.0001	0.0002
29.0000	233865.5	28.9998	-0.0002
32.5000	204950.6	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

