

# SEA-BIRD ELECTRONICS, INC.

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SENSOR SERIAL NUMBER: 2355  
CALIBRATION DATE: 19-Aug-11

SBE 37 TEMPERATURE CALIBRATION DATA  
ITS-90 TEMPERATURE SCALE

## ITS-90 COEFFICIENTS

a0 = -1.261353e-004  
a1 = 2.948864e-004  
a2 = -3.877481e-006  
a3 = 1.902609e-007

BATH TEMP (ITS-90)	INSTRUMENT OUTPUT	INST TEMP (ITS-90)	RESIDUAL (ITS-90)
1.0000	811350.6	1.0000	-0.0000
4.4999	694044.6	4.4999	0.0000
15.0000	442898.4	15.0000	-0.0000
18.5000	383655.5	18.5000	0.0000
24.0000	307963.9	24.0000	0.0000
29.0000	253716.7	29.0000	-0.0000
32.5000	222263.9	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

