

# Sea-Bird Electronics, Inc.

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SENSOR SERIAL NUMBER: 2321  
CALIBRATION DATE: 05-Feb-14

SBE 37 TEMPERATURE CALIBRATION DATA  
ITS-90 TEMPERATURE SCALE

## ITS-90 COEFFICIENTS

a0 = -6.455039e-005  
a1 = 2.974992e-004  
a2 = -4.453157e-006  
a3 = 2.122319e-007

BATH TEMP (ITS-90)	INSTRUMENT OUTPUT	INST TEMP (ITS-90)	RESIDUAL (ITS-90)
1.0000	693894.0	1.0000	-0.0000
4.5000	592874.3	4.5000	-0.0000
15.0000	376972.6	15.0000	0.0000
18.5000	326148.2	18.5000	-0.0000
24.0000	261294.3	24.0000	-0.0000
29.0000	214884.5	29.0001	0.0001
32.4999	188013.5	32.4999	-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

