

# Sea-Bird Electronics, Inc.

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SENSOR SERIAL NUMBER: 2325  
CALIBRATION DATE: 09-Dec-11

SBE 37 TEMPERATURE CALIBRATION DATA  
ITS-90 TEMPERATURE SCALE

## ITS-90 COEFFICIENTS

a0 = -5.709813e-004

a1 = 4.269213e-004

a2 = -1.559130e-005

a3 = 5.351731e-007

BATH TEMP (ITS-90)	INSTRUMENT OUTPUT	INST TEMP (ITS-90)	RESIDUAL (ITS-90)
1.0000	682023.8	1.0000	0.0000
4.4999	584155.2	4.4999	-0.0000
15.0000	373523.9	14.9999	-0.0001
18.5000	323621.2	18.5001	0.0001
24.0000	259760.4	24.0001	0.0001
29.0000	213929.1	28.9998	-0.0002
32.5000	187334.7	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

