

# Sea-Bird Electronics, Inc.

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SENSOR SERIAL NUMBER: 1869  
CALIBRATION DATE: 24-Jan-12

SBE 37 TEMPERATURE CALIBRATION DATA  
ITS-90 TEMPERATURE SCALE

## ITS-90 COEFFICIENTS

a0 = -1.287448e-004

a1 = 3.058818e-004

a2 = -4.603955e-006

a3 = 2.180083e-007

BATH TEMP (ITS-90)	INSTRUMENT OUTPUT	INST TEMP (ITS-90)	RESIDUAL (ITS-90)
1.0000	616776.7	1.0000	0.0000
4.4999	528792.6	4.4999	-0.0000
14.9999	339605.8	14.9999	0.0000
18.5000	294773.9	18.5000	-0.0000
24.0000	237344.3	24.0001	0.0001
29.0000	196063.6	28.9999	-0.0001
32.5000	172072.2	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

