

# Sea-Bird Electronics, Inc.

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SENSOR SERIAL NUMBER: 2023  
CALIBRATION DATE: 05-Feb-14

SBE 37 TEMPERATURE CALIBRATION DATA  
ITS-90 TEMPERATURE SCALE

## ITS-90 COEFFICIENTS

a0 = -3.446742e-005  
a1 = 2.785164e-004  
a2 = -2.739560e-006  
a3 = 1.652805e-007

BATH TEMP (ITS-90)	INSTRUMENT OUTPUT	INST TEMP (ITS-90)	RESIDUAL (ITS-90)
1.0000	766841.9	1.0000	0.0000
4.5000	656062.7	4.4999	-0.0001
15.0000	418782.8	15.0000	0.0000
18.5000	362787.6	18.5000	0.0000
24.0000	291228.0	24.0000	0.0000
29.0000	239929.0	28.9999	-0.0001
32.5000	210178.2	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

