

# Sea-Bird Electronics, Inc.

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SENSOR SERIAL NUMBER: 2024  
CALIBRATION DATE: 05-Feb-14

SBE 37 TEMPERATURE CALIBRATION DATA  
ITS-90 TEMPERATURE SCALE

## ITS-90 COEFFICIENTS

a0 = -4.460489e-005  
a1 = 2.852901e-004  
a2 = -3.207876e-006  
a3 = 1.799980e-007

BATH TEMP (ITS-90)	INSTRUMENT OUTPUT	INST TEMP (ITS-90)	RESIDUAL (ITS-90)
1.0000	687890.8	1.0000	-0.0000
4.5000	588911.8	4.5001	0.0001
15.0000	376652.0	14.9999	-0.0001
18.5000	326489.8	18.5000	0.0000
24.0000	262336.9	23.9999	-0.0001
29.0000	216302.1	29.0002	0.0002
32.4999	189592.9	32.4998	-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

