

# Sea-Bird Electronics, Inc.

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SENSOR SERIAL NUMBER: 2025  
CALIBRATION DATE: 04-Mar-15

SBE 37 TEMPERATURE CALIBRATION DATA  
ITS-90 TEMPERATURE SCALE

## COEFFICIENTS:

a0 = -2.110898e-005  
a1 = 2.767629e-004  
a2 = -2.517028e-006  
a3 = 1.607915e-007

BATH TEMP (ITS-90)	INSTRUMENT OUTPUT	INST TEMP (ITS-90)	RESIDUAL (ITS-90)
1.0000	718600.9	1.0000	-0.0000
4.5000	615203.5	4.5000	0.0000
15.0000	393477.2	15.0000	0.0000
18.5000	341083.0	18.4999	-0.0001
24.0000	274069.6	24.0001	0.0001
29.0000	225987.5	28.9999	-0.0001
32.5000	198083.1	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

n = instrument output

