

Sea-Bird Electronics, Inc.

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SENSOR SERIAL NUMBER: 2025
CALIBRATION DATE: 08-Dec-11

SBE 37 TEMPERATURE CALIBRATION DATA
ITS-90 TEMPERATURE SCALE

ITS-90 COEFFICIENTS

a0 = 8.680312e-006
a1 = 2.698173e-004
a2 = -1.977127e-006
a3 = 1.468035e-007

BATH TEMP (ITS-90)	INSTRUMENT OUTPUT	INST TEMP (ITS-90)	RESIDUAL (ITS-90)
1.0000	718590.3	1.0000	-0.0000
4.4999	615191.1	4.5000	0.0001
15.0000	393468.6	14.9999	-0.0001
18.4999	341072.9	18.5000	0.0001
24.0000	274064.8	23.9998	-0.0002
28.9999	225978.4	29.0001	0.0002
32.5000	198076.1	32.4999	-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

