

SEA-BIRD ELECTRONICS, INC.

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SENSOR SERIAL NUMBER: 2025
CALIBRATION DATE: 05-Jan-11

SBE 37 TEMPERATURE CALIBRATION DATA
ITS-90 TEMPERATURE SCALE

ITS-90 COEFFICIENTS

a0 = -5.750709e-005
a1 = 2.849692e-004
a2 = -3.133214e-006
a3 = 1.762065e-007

BATH TEMP (ITS-90)	INSTRUMENT OUTPUT	INST TEMP (ITS-90)	RESIDUAL (ITS-90)
1.0000	718571.6	0.9999	-0.0001
4.4999	615174.5	4.5000	0.0001
14.9999	393463.2	14.9997	-0.0002
18.4999	341067.5	18.5000	0.0001
23.9999	274062.1	24.0000	0.0001
29.0000	225985.5	29.0000	-0.0000
32.5000	198086.1	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

