

SEA-BIRD ELECTRONICS, INC.

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SENSOR SERIAL NUMBER: 2026
CALIBRATION DATE: 19-Jan-11

SBE 37 TEMPERATURE CALIBRATION DATA
ITS-90 TEMPERATURE SCALE

ITS-90 COEFFICIENTS

a0 = 1.473929e-005
a1 = 2.714806e-004
a2 = -2.269406e-006
a3 = 1.537839e-007

BATH TEMP (ITS-90)	INSTRUMENT OUTPUT	INST TEMP (ITS-90)	RESIDUAL (ITS-90)
1.0000	737249.6	1.0000	-0.0000
4.5000	630424.4	4.5001	0.0001
15.0000	401836.1	15.0000	0.0000
18.5000	347944.2	18.4999	-0.0001
23.9999	279107.1	24.0000	0.0001
29.0000	229790.1	29.0001	0.0001
32.4999	201208.1	32.4999	-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

