

SEA-BIRD ELECTRONICS, INC.

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SENSOR SERIAL NUMBER: 2022
CALIBRATION DATE: 19-Aug-11

SBE 37 TEMPERATURE CALIBRATION DATA
ITS-90 TEMPERATURE SCALE

ITS-90 COEFFICIENTS

a0 = 1.208829e-005
a1 = 2.719707e-004
a2 = -2.159375e-006
a3 = 1.512921e-007

BATH TEMP (ITS-90)	INSTRUMENT OUTPUT	INST TEMP (ITS-90)	RESIDUAL (ITS-90)
1.0000	693996.8	1.0000	-0.0000
4.4999	593953.8	4.4999	0.0000
15.0000	379550.8	14.9998	-0.0002
18.5000	328912.9	18.5002	0.0002
24.0000	264182.3	23.9999	-0.0001
29.0000	217751.4	29.0000	-0.0000
32.5000	190815.3	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

