

Sea-Bird Electronics, Inc.

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SENSOR SERIAL NUMBER: 2023
CALIBRATION DATE: 09-Dec-11

SBE 37 TEMPERATURE CALIBRATION DATA
ITS-90 TEMPERATURE SCALE

ITS-90 COEFFICIENTS

a0 = -3.130252e-005

a1 = 2.774986e-004

a2 = -2.639693e-006

a3 = 1.621824e-007

BATH TEMP (ITS-90)	INSTRUMENT OUTPUT	INST TEMP (ITS-90)	RESIDUAL (ITS-90)
1.0000	766837.8	1.0000	0.0000
4.4999	656057.1	4.4998	-0.0001
15.0000	418777.7	15.0000	0.0000
18.5000	362785.0	18.5001	0.0001
24.0000	291231.9	23.9999	-0.0001
29.0000	239934.6	29.0000	-0.0000
32.5000	210187.6	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

