

Sea-Bird Electronics, Inc.

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SENSOR SERIAL NUMBER: 2023
CALIBRATION DATE: 13-Jan-12

SBE 37 TEMPERATURE CALIBRATION DATA
ITS-90 TEMPERATURE SCALE

ITS-90 COEFFICIENTS

a0 = -1.463461e-005
a1 = 2.737796e-004
a2 = -2.364352e-006
a3 = 1.554235e-007

BATH TEMP (ITS-90)	INSTRUMENT OUTPUT	INST TEMP (ITS-90)	RESIDUAL (ITS-90)
1.0000	766801.1	1.0000	0.0000
4.5000	656028.9	4.4999	-0.0001
14.9999	418773.4	15.0000	0.0001
18.5000	362781.3	18.5001	0.0001
24.0000	291232.6	23.9997	-0.0003
29.0000	239930.0	29.0003	0.0003
32.5000	210185.5	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

