

# Sea-Bird Electronics, Inc.

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SENSOR SERIAL NUMBER: 2318

CALIBRATION DATE: 03-Mar-15

SBE 37 TEMPERATURE CALIBRATION DATA

ITS-90 TEMPERATURE SCALE

## COEFFICIENTS:

a0 = -4.444414e-004

a1 = 3.869681e-004

a2 = -1.213650e-005

a3 = 4.330931e-007

BATH TEMP (ITS-90)	INSTRUMENT OUTPUT	INST TEMP (ITS-90)	RESIDUAL (ITS-90)
1.0000	765518.7	1.0001	0.0001
4.5000	655300.7	4.4999	-0.0001
15.0000	418483.8	15.0001	0.0001
18.5000	362468.0	18.5000	-0.0000
24.0000	290823.5	24.0000	0.0000
29.0000	239439.5	28.9999	-0.0001
32.5000	209636.7	32.5001	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

n = instrument output

