

# Sea-Bird Electronics, Inc.

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SENSOR SERIAL NUMBER: 3764  
CALIBRATION DATE: 21-Nov-15

SBE 37 TEMPERATURE CALIBRATION DATA  
ITS-90 TEMPERATURE SCALE

## COEFFICIENTS:

a0 = -1.077783e-004  
a1 = 2.992771e-004  
a2 = -4.120233e-006  
a3 = 2.043806e-007

BATH TEMP (° C)	INSTRUMENT OUTPUT (counts)	INST TEMP (° C)	RESIDUAL (° C)
1.0000	645093.5	1.0000	0.0000
4.5000	552895.5	4.5000	-0.0000
15.0000	354768.4	15.0001	0.0001
18.5001	307848.6	18.5000	-0.0001
24.0000	247762.6	24.0001	0.0001
29.0000	204590.4	28.9999	-0.0001
32.5000	179506.5	32.5000	0.0000

n = Instrument Output (counts)

Temperature ITS-90 (°C) =  $1/\{a_0 + a_1[\ln(n)] + a_2[\ln^2(n)] + a_3[\ln^3(n)]\} - 273.15$

Residual (°C) = instrument temperature - bath temperature

