

# Sea-Bird Electronics, Inc.

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SENSOR SERIAL NUMBER: 4078  
CALIBRATION DATE: 22-Nov-15

SBE 37 TEMPERATURE CALIBRATION DATA  
ITS-90 TEMPERATURE SCALE

## COEFFICIENTS:

a0 = 6.790489e-006  
a1 = 2.728806e-004  
a2 = -2.084421e-006  
a3 = 1.477959e-007

BATH TEMP (° C)	INSTRUMENT OUTPUT (counts)	INST TEMP (° C)	RESIDUAL (° C)
1.0000	666516.6	1.0000	-0.0000
4.5000	570652.2	4.5000	0.0000
15.0000	365096.1	15.0000	-0.0000
18.5000	316521.7	18.5000	-0.0000
24.0000	254393.3	24.0000	0.0000
29.0000	209809.8	29.0000	0.0000
32.5000	183935.0	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

