

# Sea-Bird Electronics, Inc.

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SENSOR SERIAL NUMBER: 1807  
CALIBRATION DATE: 22-Nov-15

SBE 37 TEMPERATURE CALIBRATION DATA  
ITS-90 TEMPERATURE SCALE

## COEFFICIENTS:

a0 = 1.668826e-006  
a1 = 2.774737e-004  
a2 = -2.705945e-006  
a3 = 1.655190e-007

BATH TEMP (° C)	INSTRUMENT OUTPUT (counts)	INST TEMP (° C)	RESIDUAL (° C)
1.0000	695563.1	1.0000	-0.0000
4.5000	594830.3	4.5000	0.0000
15.0000	379241.1	15.0000	-0.0000
18.5000	328403.5	18.5001	0.0001
24.0000	263469.2	23.9999	-0.0001
29.0000	216941.5	29.0001	0.0001
32.5000	189974.0	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

