

# Sea-Bird Electronics, Inc.

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SENSOR SERIAL NUMBER: 3765  
CALIBRATION DATE: 18-Oct-16

SBE 37 TEMPERATURE CALIBRATION DATA  
ITS-90 TEMPERATURE SCALE

## COEFFICIENTS:

a0 = 1.378324e-005  
a1 = 2.700585e-004  
a2 = -1.843888e-006  
a3 = 1.418218e-007

BATH TEMP (° C)	INSTRUMENT OUTPUT (counts)	INST TEMP (° C)	RESIDUAL (° C)
1.0000	671024.1	1.0001	0.0001
4.5000	574655.0	4.4999	-0.0001
15.0000	367909.8	15.0000	0.0000
18.5000	319030.4	18.5001	0.0001
24.0000	256496.8	24.0001	0.0001
29.0000	211609.9	28.9997	-0.0003
32.5000	185546.6	32.5002	0.0002

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

