

# Sea-Bird Electronics, Inc.

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SENSOR SERIAL NUMBER: 1853  
CALIBRATION DATE: 21-Nov-15

SBE 37 TEMPERATURE CALIBRATION DATA  
ITS-90 TEMPERATURE SCALE

## COEFFICIENTS:

a0 = -5.805085e-005

a1 = 2.905301e-004

a2 = -3.484523e-006

a3 = 1.892983e-007

BATH TEMP (° C)	INSTRUMENT OUTPUT (counts)	INST TEMP (° C)	RESIDUAL (° C)
1.0000	623083.8	1.0000	-0.0000
4.5000	533994.6	4.5001	0.0001
15.0000	342569.8	15.0002	0.0002
18.5001	297245.0	18.4997	-0.0004
24.0000	239193.9	24.0002	0.0002
29.0000	197489.2	29.0000	0.0000
32.5000	173260.2	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

