

# Sea-Bird Electronics, Inc.

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SENSOR SERIAL NUMBER: 2327

CALIBRATION DATE: 30-Sep-16

SBE 37 TEMPERATURE CALIBRATION DATA

ITS-90 TEMPERATURE SCALE

## COEFFICIENTS:

a0 = -1.104719e-005

a1 = 2.838294e-004

a2 = -3.071735e-006

a3 = 1.691991e-007

BATH TEMP (° C)	INSTRUMENT OUTPUT (counts)	INST TEMP (° C)	RESIDUAL (° C)
1.0000	659599.6	1.0000	0.0000
4.5000	563516.8	4.5000	-0.0000
15.0000	358321.2	15.0000	0.0000
18.5000	310044.8	18.5000	0.0000
24.0000	248454.6	24.0000	-0.0000
29.0000	204385.7	29.0000	0.0000
32.5000	178869.0	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

