

Sea-Bird Electronics, Inc.

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SENSOR SERIAL NUMBER: 1869
CALIBRATION DATE: 11-Oct-16

SBE 37 TEMPERATURE CALIBRATION DATA
ITS-90 TEMPERATURE SCALE

COEFFICIENTS:

a0 = -5.544802e-005

a1 = 2.887497e-004

a2 = -3.270964e-006

a3 = 1.834900e-007

BATH TEMP (° C)	INSTRUMENT OUTPUT (counts)	INST TEMP (° C)	RESIDUAL (° C)
1.0000	616727.4	1.0000	0.0000
4.5000	528753.2	4.4999	-0.0001
14.9999	339593.4	14.9999	0.0000
18.4999	294765.5	18.5000	0.0001
23.9999	237341.5	23.9999	-0.0000
28.9999	196059.6	28.9998	-0.0001
32.5000	172065.0	32.5001	0.0001

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

