

Sea-Bird Electronics, Inc.

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SENSOR SERIAL NUMBER: 1678

CALIBRATION DATE: 27-Jan-17

SBE 37 TEMPERATURE CALIBRATION DATA

ITS-90 TEMPERATURE SCALE

COEFFICIENTS:

a0 = -5.246660e-005

a1 = 2.824248e-004

a2 = -2.959801e-006

a3 = 1.709313e-007

BATH TEMP (° C)	INSTRUMENT OUTPUT (counts)	INST TEMP (° C)	RESIDUAL (° C)
1.0000	744949.3	1.0000	0.0000
4.5000	637607.8	4.5000	-0.0000
15.0000	407526.6	15.0000	-0.0000
18.5000	353183.0	18.5001	0.0001
24.0000	283703.0	24.0001	0.0001
28.9999	233868.3	28.9997	-0.0002
32.5000	204951.6	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

