

Sea-Bird Electronics, Inc.

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SENSOR SERIAL NUMBER: 0258

CALIBRATION DATE: 20-Jan-17

SBE 38 TEMPERATURE CALIBRATION DATA

ITS-90 TEMPERATURE SCALE

COEFFICIENTS:

a0 = -2.250096e-004

a1 = 3.065365e-004

a2 = -4.386217e-006

a3 = 2.026797e-007

BATH TEMP (° C)	INSTRUMENT OUTPUT (counts)	INST TEMP (° C)	RESIDUAL (° C)
-1.5000	917237.4	-1.4999	0.0001
1.0000	820220.2	1.0000	-0.0000
4.5000	703389.5	4.4999	-0.0001
8.0000	605158.6	8.0000	-0.0000
11.5000	522290.1	11.5001	0.0001
15.0000	452154.6	15.0000	0.0000
18.5000	392605.3	18.5000	0.0000
22.0000	341888.5	22.0000	-0.0000
25.5000	298563.9	25.4999	-0.0001
29.0000	261443.6	28.9999	-0.0001
32.5000	229549.0	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

