

Sea-Bird Electronics, Inc.

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SENSOR SERIAL NUMBER: 0733
CALIBRATION DATE: 04-Oct-16

SBE 38 TEMPERATURE CALIBRATION DATA
ITS-90 TEMPERATURE SCALE

COEFFICIENTS:

a0 = 1.020737e-004
a1 = 2.680036e-004
a2 = -1.992112e-006
a3 = 1.402562e-007

BATH TEMP (° C)	INSTRUMENT OUTPUT (counts)	INST TEMP (° C)	RESIDUAL (° C)
-1.5000	678719.0	-1.5000	0.0000
1.0000	604520.0	1.0000	-0.0000
4.5000	515589.1	4.4999	-0.0001
8.0000	441220.0	7.9999	-0.0001
11.5000	378808.4	11.5001	0.0001
14.9999	326262.6	15.0000	0.0001
18.5000	281869.2	18.5000	-0.0000
22.0000	244246.0	22.0000	-0.0000
25.5000	212260.3	25.4999	-0.0001
29.0000	184984.6	29.0000	-0.0000
32.5000	161656.7	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

