

Sea-Bird Electronics, Inc.

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SENSOR SERIAL NUMBER: 1855
CALIBRATION DATE: 22-Nov-15

SBE 37 TEMPERATURE CALIBRATION DATA
ITS-90 TEMPERATURE SCALE

COEFFICIENTS:

a0 = 3.180819e-005
a1 = 2.655073e-004
a2 = -1.513263e-006
a3 = 1.373524e-007

BATH TEMP (° C)	INSTRUMENT OUTPUT (counts)	INST TEMP (° C)	RESIDUAL (° C)
1.0000	658393.8	1.0000	-0.0000
4.5000	564342.3	4.5000	0.0000
15.0000	362215.1	15.0000	-0.0000
18.5000	314334.4	18.5000	0.0000
24.0000	253010.9	24.0000	-0.0000
29.0000	208935.2	29.0000	0.0000
32.5000	183323.6	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

