

Sea-Bird Electronics, Inc.

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SENSOR SERIAL NUMBER: 1852
CALIBRATION DATE: 21-Nov-15

SBE 37 TEMPERATURE CALIBRATION DATA
ITS-90 TEMPERATURE SCALE

COEFFICIENTS:

a0 = -1.862375e-004
a1 = 3.103016e-004
a2 = -4.956006e-006
a3 = 2.266176e-007

BATH TEMP (° C)	INSTRUMENT OUTPUT (counts)	INST TEMP (° C)	RESIDUAL (° C)
1.0000	706632.2	1.0000	-0.0000
4.5000	606057.5	4.5000	0.0000
15.0000	389634.4	15.0001	0.0001
18.5001	338307.3	18.5000	-0.0001
24.0000	272526.3	24.0000	0.0000
29.0000	225216.7	29.0001	0.0001
32.5000	197712.9	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

