

Sea-Bird Electronics, Inc.

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SENSOR SERIAL NUMBER: 1865
CALIBRATION DATE: 28-Jan-17

SBE 37 TEMPERATURE CALIBRATION DATA
ITS-90 TEMPERATURE SCALE

COEFFICIENTS:

a0 = -3.534992e-005
a1 = 2.879850e-004
a2 = -3.237500e-006
a3 = 1.841451e-007

BATH TEMP (° C)	INSTRUMENT OUTPUT (counts)	INST TEMP (° C)	RESIDUAL (° C)
1.0000	581924.4	1.0000	0.0000
4.5000	498911.2	4.5000	-0.0000
14.9999	320418.0	14.9999	0.0000
18.5000	278116.4	18.5000	-0.0000
24.0000	223926.7	24.0000	0.0000
29.0000	184971.3	28.9999	-0.0001
32.5000	162330.1	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

