

Sea-Bird Electronics, Inc.

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SENSOR SERIAL NUMBER: 4254
CALIBRATION DATE: 01-Dec-16

SBE 37 TEMPERATURE CALIBRATION DATA
ITS-90 TEMPERATURE SCALE

COEFFICIENTS:

a0 = -9.656802e-005
a1 = 2.937087e-004
a2 = -3.662366e-006
a3 = 1.904062e-007

BATH TEMP (° C)	INSTRUMENT OUTPUT (counts)	INST TEMP (° C)	RESIDUAL (° C)
1.0000	677916.5	1.0001	0.0001
4.5000	580907.5	4.4999	-0.0001
15.0000	372529.6	15.0000	0.0000
18.5000	323202.3	18.5002	0.0002
24.0000	260060.7	23.9998	-0.0002
28.9999	214696.8	28.9999	0.0000
32.5000	188347.0	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

