

Sea-Bird Electronics, Inc.

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SENSOR SERIAL NUMBER: 2357
CALIBRATION DATE: 18-Oct-16

SBE 37 TEMPERATURE CALIBRATION DATA
ITS-90 TEMPERATURE SCALE

COEFFICIENTS:

a0 = -1.254049e-004
a1 = 3.055191e-004
a2 = -4.625818e-006
a3 = 2.111799e-007

BATH TEMP (° C)	INSTRUMENT OUTPUT (counts)	INST TEMP (° C)	RESIDUAL (° C)
1.0000	663537.4	1.0000	0.0000
4.5000	567696.0	4.5000	-0.0000
15.0000	362456.3	15.0000	0.0000
18.5000	314032.4	18.5000	-0.0000
24.0000	252151.8	24.0001	0.0001
29.0000	207797.7	28.9998	-0.0002
32.5000	182075.0	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

