

Sea-Bird Electronics, Inc.

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SENSOR SERIAL NUMBER: 1804

CALIBRATION DATE: 30-Sep-16

SBE 37 TEMPERATURE CALIBRATION DATA

ITS-90 TEMPERATURE SCALE

COEFFICIENTS:

a0 = -5.034484e-005

a1 = 2.859625e-004

a2 = -3.266627e-006

a3 = 1.803054e-007

BATH TEMP (° C)	INSTRUMENT OUTPUT (counts)	INST TEMP (° C)	RESIDUAL (° C)
1.0000	703335.8	0.9999	-0.0001
4.5000	601951.9	4.5002	0.0002
15.0000	384679.6	14.9998	-0.0002
18.5000	333359.3	18.5000	0.0000
24.0000	267751.5	24.0000	0.0000
29.0000	220694.0	29.0002	0.0002
32.5000	193397.8	32.4999	-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

