

Sea-Bird Electronics, Inc.

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SENSOR SERIAL NUMBER: 0826

CALIBRATION DATE: 13-Sep-14

SBE 37 TEMPERATURE CALIBRATION DATA

ITS-90 TEMPERATURE SCALE

COEFFICIENTS:

a0 = -8.017857e-005

a1 = 2.917090e-004

a2 = -3.684935e-006

a3 = 1.862275e-007

BATH TEMP (ITS-90)	INSTRUMENT OUTPUT	INST TEMP (ITS-90)	RESIDUAL (ITS-90)
0.9999	737244.5	0.9997	-0.0002
4.5000	630326.9	4.5003	0.0003
15.0000	401680.1	14.9998	-0.0002
18.4999	347793.4	18.4998	-0.0001
24.0000	278981.5	24.0001	0.0001
29.0000	229697.1	29.0002	0.0002
32.5000	201141.2	32.4998	-0.0002

Temperature ITS-90 = $1/\{a_0 + a_1[\ln(n)] + a_2[\ln^2(n)] + a_3[\ln^3(n)]\} - 273.15$ (°C)

Residual = instrument temperature - bath temperature

n = instrument output

