

# Sea-Bird Electronics, Inc.

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SENSOR SERIAL NUMBER: 2321  
CALIBRATION DATE: 13-Dec-11

SBE 37 TEMPERATURE CALIBRATION DATA  
ITS-90 TEMPERATURE SCALE

## ITS-90 COEFFICIENTS

a0 = -5.590437e-005

a1 = 2.953421e-004

a2 = -4.275649e-006

a3 = 2.074089e-007

BATH TEMP (ITS-90)	INSTRUMENT OUTPUT	INST TEMP (ITS-90)	RESIDUAL (ITS-90)
1.0000	693872.8	1.0000	-0.0000
4.4999	592857.0	4.5000	0.0001
15.0000	376969.1	14.9999	-0.0001
18.5000	326146.1	18.5000	0.0000
24.0000	261295.7	24.0001	0.0001
29.0000	214890.4	29.0000	-0.0000
32.5000	188018.9	32.5000	-0.0000

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

Date, Delta T (mdeg C)

