

# Sea-Bird Electronics, Inc.

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SENSOR SERIAL NUMBER: 2329  
CALIBRATION DATE: 09-Dec-11

SBE 37 TEMPERATURE CALIBRATION DATA  
ITS-90 TEMPERATURE SCALE

## ITS-90 COEFFICIENTS

a0 = -5.292973e-004  
a1 = 4.156851e-004  
a2 = -1.504601e-005  
a3 = 5.334761e-007

BATH TEMP (ITS-90)	INSTRUMENT OUTPUT	INST TEMP (ITS-90)	RESIDUAL (ITS-90)
1.0000	716855.3	0.9999	-0.0001
4.4999	614955.4	4.5000	0.0001
15.0000	394863.1	14.9999	-0.0001
18.5000	342525.2	18.4999	-0.0001
24.0000	275402.2	24.0001	0.0001
29.0000	227120.8	29.0001	0.0001
32.5000	199061.2	32.4999	-0.0001

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

