

# Sea-Bird Electronics, Inc.

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SENSOR SERIAL NUMBER: 2327  
CALIBRATION DATE: 09-Dec-11

SBE 37 TEMPERATURE CALIBRATION DATA  
ITS-90 TEMPERATURE SCALE

## ITS-90 COEFFICIENTS

a0 = -2.915727e-005

a1 = 2.881341e-004

a2 = -3.413472e-006

a3 = 1.782618e-007

BATH TEMP (ITS-90)	INSTRUMENT OUTPUT	INST TEMP (ITS-90)	RESIDUAL (ITS-90)
1.0000	659564.8	1.0000	-0.0000
4.4999	563493.6	4.5000	0.0001
15.0000	358314.7	15.0000	0.0000
18.5000	310041.9	18.4999	-0.0001
24.0000	248452.6	24.0000	0.0000
29.0000	204385.1	29.0001	0.0001
32.5000	178870.9	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

