

# Sea-Bird Electronics, Inc.

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SENSOR SERIAL NUMBER: 0361  
CALIBRATION DATE: 09-Jan-15

SBE 45 TEMPERATURE CALIBRATION DATA  
ITS-90 TEMPERATURE SCALE

## COEFFICIENTS:

a0 = 2.019227e-005  
a1 = 2.797741e-004  
a2 = -2.941172e-006  
a3 = 1.638007e-007

BATH TEMP (ITS-90)	INSTRUMENT OUTPUT	INST TEMP (ITS-90)	RESIDUAL (ITS-90)
1.0000	689066.5	1.0000	0.0000
4.4999	587688.5	4.4999	-0.0000
14.9999	371848.7	15.0000	0.0001
18.4999	321243.5	18.4998	-0.0001
23.9999	256804.3	23.9998	-0.0001
28.9999	210800.8	29.0000	0.0001
32.5000	184213.2	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

n = instrument output

