

# Sea-Bird Electronics, Inc.

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SENSOR SERIAL NUMBER: 0696  
CALIBRATION DATE: 07-Mar-15

SBE 3 TEMPERATURE CALIBRATION DATA  
ITS-90 TEMPERATURE SCALE

## ITS-90 COEFFICIENTS:

g = 4.84768970e-003  
h = 6.90881981e-004  
i = 3.39567717e-005  
j = 3.26568174e-006  
f0 = 1000.0

BATH TEMP (ITS-90)	INSTRUMENT FREQ (Hz)	INST TEMP (ITS-90)	RESIDUAL (ITS-90)
-1.5000	6191.135	-1.4999	0.00015
0.9999	6548.116	0.9998	-0.00010
4.5000	7072.686	4.4998	-0.00017
8.0000	7626.819	7.9999	-0.00010
11.4999	8211.277	11.5000	0.00014
14.9999	8826.760	15.0001	0.00018
18.4999	9473.960	18.5000	0.00012
21.9999	10153.556	21.9999	0.00002
25.4999	10866.153	25.4997	-0.00022
29.0000	11612.441	28.9997	-0.00027
32.5000	12393.030	32.5003	0.00025

Temperature ITS-90 =  $1/\{g + h[\ln(f_0/f)] + i[\ln^2(f_0/f)] + j[\ln^3(f_0/f)]\} - 273.15$  (°C)

Residual = instrument temperature - bath temperature

