

# Sea-Bird Electronics, Inc.

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SENSOR SERIAL NUMBER: 2224  
CALIBRATION DATE: 06-Jan-15

SBE 3 TEMPERATURE CALIBRATION DATA  
ITS-90 TEMPERATURE SCALE

## ITS-90 COEFFICIENTS:

g = 4.36247616e-003  
h = 6.42917033e-004  
i = 2.33215713e-005  
j = 2.20028714e-006  
f0 = 1000.0

BATH TEMP (ITS-90)	INSTRUMENT FREQ (Hz)	INST TEMP (ITS-90)	RESIDUAL (ITS-90)
-1.5000	3000.916	-1.5000	0.00003
1.0000	3173.970	1.0000	-0.00002
4.5000	3428.243	4.4999	-0.00005
8.0000	3696.878	8.0000	-0.00000
11.5000	3980.255	11.5000	0.00000
15.0000	4278.761	15.0001	0.00006
18.5000	4592.754	18.5000	0.00004
22.0000	4922.591	22.0000	-0.00001
25.5000	5268.619	25.4999	-0.00007
29.0000	5631.180	29.0000	-0.00002
32.5000	6010.582	32.5000	0.00005

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

