

# Sea-Bird Electronics, Inc.

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SENSOR SERIAL NUMBER: 2305  
CALIBRATION DATE: 24-Feb-15

SBE 3 TEMPERATURE CALIBRATION DATA  
ITS-90 TEMPERATURE SCALE

## ITS-90 COEFFICIENTS:

g = 4.36611161e-003  
h = 6.44845443e-004  
i = 2.37438316e-005  
j = 2.27168283e-006  
f0 = 1000.0

BATH TEMP (ITS-90)	INSTRUMENT FREQ (Hz)	INST TEMP (ITS-90)	RESIDUAL (ITS-90)
-1.5000	3010.575	-1.5000	-0.00002
0.9999	3183.844	0.9999	0.00002
4.4999	3438.407	4.4999	-0.00001
7.9999	3707.313	7.9999	0.00002
11.4999	3990.941	11.4999	-0.00001
14.9999	4289.673	14.9999	-0.00001
18.5000	4603.878	18.5000	-0.00004
22.0000	4933.900	22.0000	0.00001
25.5000	5280.080	25.5000	0.00004
29.0000	5642.737	29.0000	-0.00000
32.4999	6022.184	32.4999	-0.00001

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

