

# Sea-Bird Electronics, Inc.

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SENSOR SERIAL NUMBER: 5584  
CALIBRATION DATE: 02-Feb-16

SBE 3 TEMPERATURE CALIBRATION DATA  
ITS-90 TEMPERATURE SCALE

## COEFFICIENTS:

g = 4.32870738e-003  
h = 6.29036199e-004  
i = 1.90813696e-005  
j = 1.25458942e-006  
f0 = 1000.0

BATH TEMP (° C)	INSTRUMENT OUTPUT (Hz)	INST TEMP (° C)	RESIDUAL (° C)
-1.5000	2889.618	-1.5000	-0.00005
1.0000	3058.237	1.0001	0.00006
4.5000	3306.141	4.5000	0.00001
7.9999	3568.246	7.9999	0.00003
11.5000	3844.979	11.5000	-0.00001
15.0000	4136.725	15.0000	-0.00003
18.5000	4443.884	18.4999	-0.00009
22.0000	4766.859	22.0000	-0.00001
25.5000	5106.020	25.5001	0.00011
29.0000	5461.714	29.0001	0.00006
32.5000	5834.306	32.4999	-0.00007

f = Instrument Output (Hz)

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

Residual (°C) = instrument temperature - bath temperature

