

# Sea-Bird Electronics, Inc.

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SENSOR SERIAL NUMBER: 4507  
CALIBRATION DATE: 11-Mar-17

SBE 3 TEMPERATURE CALIBRATION DATA  
ITS-90 TEMPERATURE SCALE

## COEFFICIENTS:

g = 4.40120159e-003  
h = 6.40550043e-004  
i = 2.15707700e-005  
j = 1.86947754e-006  
f0 = 1000.0

BATH TEMP (° C)	INSTRUMENT OUTPUT (Hz)	INST TEMP (° C)	RESIDUAL (° C)
-1.5000	3206.320	-1.5000	0.00002
1.0000	3391.754	1.0000	-0.00003
4.5000	3664.216	4.5000	-0.00001
8.0000	3952.053	8.0000	-0.00000
11.5000	4255.686	11.5000	0.00003
15.0000	4575.518	15.0000	0.00005
18.5000	4911.934	18.5000	-0.00005
22.0000	5265.335	21.9999	-0.00006
25.5000	5636.094	25.5000	0.00003
29.0000	6024.548	29.0000	0.00004
32.5000	6431.040	32.5000	-0.00002

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

