

Sea-Bird Electronics, Inc.

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SENSOR SERIAL NUMBER: 5584
CALIBRATION DATE: 27-Jan-17

SBE 3 TEMPERATURE CALIBRATION DATA
ITS-90 TEMPERATURE SCALE

COEFFICIENTS:

g = 4.32873369e-003
h = 6.29102933e-004
i = 1.91299092e-005
j = 1.26564108e-006
f0 = 1000.0

BATH TEMP (° C)	INSTRUMENT OUTPUT (Hz)	INST TEMP (° C)	RESIDUAL (° C)
-1.5000	2889.603	-1.5001	-0.00005
1.0000	3058.221	1.0001	0.00006
4.5000	3306.126	4.5000	0.00003
8.0000	3568.234	8.0000	-0.00001
11.5000	3844.963	11.5000	0.00000
15.0000	4136.712	15.0000	0.00000
18.5000	4443.866	18.4999	-0.00013
22.0000	4766.847	22.0000	0.00000
25.5000	5106.009	25.5001	0.00012
29.0001	5461.712	29.0001	0.00004
32.5000	5834.296	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

