

Sea-Bird Electronics, Inc.

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SENSOR SERIAL NUMBER: 1008
CALIBRATION DATE: 02-Jul-14

SBE 3 TEMPERATURE CALIBRATION DATA
ITS-90 TEMPERATURE SCALE

ITS-90 COEFFICIENTS:

g = 4.80101994e-003
h = 6.55844982e-004
i = 2.38131520e-005
j = 1.80868850e-006
f0 = 1000.0

BATH TEMP (ITS-90)	INSTRUMENT FREQ (Hz)	INST TEMP (ITS-90)	RESIDUAL (ITS-90)
-1.5000	6110.676	-1.5000	-0.00002
1.0000	6470.568	1.0001	0.00005
4.5000	6999.889	4.5000	-0.00001
8.0000	7559.753	7.9999	-0.00006
11.5000	8151.046	11.5000	0.00002
15.0000	8774.579	15.0001	0.00007
18.5000	9431.152	18.5000	-0.00002
22.0000	10121.595	22.0000	-0.00003
25.5000	10846.659	25.4999	-0.00006
29.0000	11607.133	29.0001	0.00010
32.5000	12403.620	32.5000	-0.00004

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

Residual = instrument temperature - bath temperature

