

Sea-Bird Electronics, Inc.

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SENSOR SERIAL NUMBER: 1371
CALIBRATION DATE: 04-Feb-15

SBE 3 TEMPERATURE CALIBRATION DATA
ITS-90 TEMPERATURE SCALE

ITS-90 COEFFICIENTS:

g = 4.79719994e-003
h = 6.55331459e-004
i = 2.23630796e-005
j = 1.53745933e-006
f0 = 1000.0

BATH TEMP (ITS-90)	INSTRUMENT FREQ (Hz)	INST TEMP (ITS-90)	RESIDUAL (ITS-90)
-1.5001	6048.460	-1.5001	-0.00002
1.0000	6403.232	1.0000	0.00003
4.5000	6924.874	4.5000	0.00000
8.0000	7476.450	7.9999	-0.00005
11.4999	8058.822	11.4999	0.00005
14.9999	8672.805	14.9999	0.00003
18.5000	9319.209	18.4999	-0.00009
21.9999	9998.831	22.0000	0.00005
25.5000	10712.423	25.5000	-0.00000
29.0000	11460.712	29.0000	-0.00000
32.5000	12244.420	32.5000	-0.00000

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

Residual = instrument temperature - bath temperature

