

Sea-Bird Electronics, Inc.

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SENSOR SERIAL NUMBER: 2329
CALIBRATION DATE: 03-Feb-15

SBE 3 TEMPERATURE CALIBRATION DATA
ITS-90 TEMPERATURE SCALE

ITS-90 COEFFICIENTS:

g = 4.34006261e-003
h = 6.41520060e-004
i = 2.32999535e-005
j = 2.26188711e-006
f0 = 1000.0

BATH TEMP (ITS-90)	INSTRUMENT FREQ (Hz)	INST TEMP (ITS-90)	RESIDUAL (ITS-90)
-1.5000	2897.606	-1.5000	-0.00001
0.9999	3064.705	0.9999	0.00004
4.5000	3310.232	4.5000	-0.00004
8.0000	3569.617	7.9999	-0.00007
11.4999	3843.242	11.5000	0.00006
14.9999	4131.467	15.0000	0.00006
18.4999	4434.642	18.4999	0.00000
22.0000	4753.123	21.9999	-0.00005
25.5000	5087.231	25.5000	-0.00001
29.0000	5437.279	29.0000	0.00000
32.5000	5803.574	32.5000	0.00001

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

Residual = instrument temperature - bath temperature

