

Sea-Bird Electronics, Inc.

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SENSOR SERIAL NUMBER: 5348
 CALIBRATION DATE: 04-Mar-17

SBE 3 TEMPERATURE CALIBRATION DATA
 ITS-90 TEMPERATURE SCALE

COEFFICIENTS:

g = 4.36742494e-003
 h = 6.36450095e-004
 i = 2.13228702e-005
 j = 1.83660192e-006
 f0 = 1000.0

BATH TEMP (° C)	INSTRUMENT OUTPUT (Hz)	INST TEMP (° C)	RESIDUAL (° C)
-1.5000	3052.328	-1.5000	0.00000
1.0000	3229.527	1.0000	0.00000
4.5000	3489.962	4.5000	-0.00000
8.0000	3765.189	8.0000	-0.00004
11.5000	4055.629	11.5000	0.00003
15.0000	4361.673	15.0001	0.00010
18.5000	4683.684	18.4999	-0.00010
22.0000	5022.085	21.9999	-0.00008
25.5000	5377.233	25.5001	0.00007
29.0000	5749.451	29.0001	0.00006
32.5000	6139.085	32.5000	-0.00004

f = Instrument Output (Hz)

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

$$\text{Residual (°C)} = \text{instrument temperature} - \text{bath temperature}$$

