

Sea-Bird Electronics, Inc.

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SENSOR SERIAL NUMBER: 4148
CALIBRATION DATE: 11-Mar-17

SBE 3 TEMPERATURE CALIBRATION DATA
ITS-90 TEMPERATURE SCALE

COEFFICIENTS:

g = 4.37331760e-003
h = 6.61226926e-004
i = 2.43591904e-005
j = 2.05481777e-006
f0 = 1000.0

BATH TEMP (° C)	INSTRUMENT OUTPUT (Hz)	INST TEMP (° C)	RESIDUAL (° C)
-1.5000	2962.957	-1.5000	0.00004
1.0000	3129.281	0.9999	-0.00005
4.5000	3373.295	4.5000	-0.00002
8.0000	3630.636	8.0000	-0.00001
11.5000	3901.653	11.5000	0.00003
15.0000	4186.681	15.0001	0.00009
18.5000	4486.030	18.5000	-0.00002
22.0000	4800.031	21.9999	-0.00010
25.5000	5129.004	25.5000	0.00001
29.0000	5473.218	29.0000	0.00004
32.5000	5832.953	32.5000	-0.00001

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

