

Sea-Bird Electronics, Inc.

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SENSOR SERIAL NUMBER: 4312
CALIBRATION DATE: 19-Jan-16

SBE 3 TEMPERATURE CALIBRATION DATA
ITS-90 TEMPERATURE SCALE

COEFFICIENTS:

g = 4.38263467e-003
h = 6.51232272e-004
i = 2.31612839e-005
j = 1.85055693e-006
f0 = 1000.0

BATH TEMP (° C)	INSTRUMENT OUTPUT (Hz)	INST TEMP (° C)	RESIDUAL (° C)
-1.5000	3057.287	-1.5000	0.00002
1.0000	3231.579	1.0000	-0.00002
4.5000	3487.516	4.5000	-0.00004
8.0000	3757.729	8.0000	-0.00001
11.5000	4042.605	11.5000	0.00004
15.0000	4342.518	15.0001	0.00006
18.5000	4657.828	18.4999	-0.00005
22.0000	4988.920	22.0000	0.00000
25.5000	5336.120	25.5000	-0.00001
29.0000	5699.771	29.0000	-0.00002
32.5000	6080.200	32.5000	0.00002

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

