

Sea-Bird Electronics, Inc.

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SENSOR SERIAL NUMBER: 4406
CALIBRATION DATE: 20-Jan-16

SBE 3 TEMPERATURE CALIBRATION DATA
ITS-90 TEMPERATURE SCALE

COEFFICIENTS:

g = 4.33632077e-003
h = 6.36496888e-004
i = 2.06494087e-005
j = 1.72224542e-006
f0 = 1000.0

BATH TEMP (° C)	INSTRUMENT OUTPUT (Hz)	INST TEMP (° C)	RESIDUAL (° C)
-1.5000	2893.987	-1.5000	0.00000
1.0000	3061.206	1.0000	0.00001
4.5000	3306.887	4.5000	-0.00002
8.0000	3566.429	8.0000	-0.00002
11.5000	3840.211	11.5000	0.00002
15.0000	4128.599	15.0000	0.00003
18.5000	4431.948	18.5000	-0.00004
22.0000	4750.625	22.0000	0.00002
25.5000	5084.953	25.5000	0.00003
29.0001	5435.264	29.0000	-0.00006
32.5000	5801.870	32.5000	0.00003

f = Instrument Output (Hz)

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

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

