

Sea-Bird Electronics, Inc.

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SENSOR SERIAL NUMBER: 4482
CALIBRATION DATE: 20-Jan-16

SBE 3 TEMPERATURE CALIBRATION DATA
ITS-90 TEMPERATURE SCALE

COEFFICIENTS:

g = 4.41434731e-003
h = 6.42116160e-004
i = 2.15184847e-005
j = 1.77080074e-006
f0 = 1000.0

BATH TEMP (° C)	INSTRUMENT OUTPUT (Hz)	INST TEMP (° C)	RESIDUAL (° C)
-1.5000	3267.970	-1.5000	0.00001
1.0000	3456.747	1.0000	0.00001
4.5000	3734.100	4.4999	-0.00005
8.0000	4027.104	8.0000	-0.00001
11.5000	4336.179	11.5000	0.00004
15.0000	4661.742	15.0001	0.00009
18.5000	5004.176	18.4999	-0.00008
22.0000	5363.917	22.0000	-0.00003
25.5000	5741.327	25.5000	0.00003
29.0001	6136.770	29.0001	-0.00001
32.5000	6550.585	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

