

Sea-Bird Electronics, Inc.

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SENSOR SERIAL NUMBER: 0710
CALIBRATION DATE: 05-Feb-16

SBE 3 TEMPERATURE CALIBRATION DATA
ITS-90 TEMPERATURE SCALE

COEFFICIENTS:

g = 4.79548715e-003
h = 6.77630782e-004
i = 2.95437525e-005
j = 2.69728863e-006
f0 = 1000.0

BATH TEMP (° C)	INSTRUMENT OUTPUT (Hz)	INST TEMP (° C)	RESIDUAL (° C)
-1.5000	5797.505	-1.5000	0.00004
1.0000	6132.296	1.0000	-0.00000
4.5000	6624.163	4.5000	-0.00005
8.0000	7143.718	7.9999	-0.00010
11.5000	7691.706	11.5000	-0.00001
15.0000	8268.799	15.0001	0.00008
18.5000	8875.666	18.5002	0.00016
22.0000	9512.926	22.0001	0.00010
25.5000	10181.174	25.4998	-0.00016
29.0000	10881.060	28.9997	-0.00028
32.5000	11613.242	32.5002	0.00021

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

