

Sea-Bird Electronics, Inc.

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SENSOR SERIAL NUMBER: 4303
CALIBRATION DATE: 20-Jan-16

SBE 3 TEMPERATURE CALIBRATION DATA
ITS-90 TEMPERATURE SCALE

COEFFICIENTS:

g = 4.38501054e-003
h = 6.47529902e-004
i = 2.19462935e-005
j = 1.64955605e-006
f0 = 1000.0

BATH TEMP (° C)	INSTRUMENT OUTPUT (Hz)	INST TEMP (° C)	RESIDUAL (° C)
-1.5000	3084.094	-1.4999	0.00009
1.0000	3260.503	0.9999	-0.00008
4.5000	3519.592	4.4999	-0.00011
8.0000	3793.176	8.0000	-0.00002
11.5000	4081.645	11.5001	0.00010
15.0000	4385.385	15.0002	0.00021
18.5000	4704.734	18.4999	-0.00010
22.0000	5040.124	21.9999	-0.00014
25.5000	5391.906	25.5000	0.00002
29.0001	5760.398	29.0001	-0.00001
32.5000	6145.929	32.5000	0.00004

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

