

Sea-Bird Electronics, Inc.

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SENSOR SERIAL NUMBER: 4551

CALIBRATION DATE: 28-Sep-16

SBE 3 TEMPERATURE CALIBRATION DATA

ITS-90 TEMPERATURE SCALE

COEFFICIENTS:

g = 4.33685425e-003

h = 6.33898751e-004

i = 2.01179000e-005

j = 1.64256625e-006

f0 = 1000.0

BATH TEMP (° C)	INSTRUMENT OUTPUT (Hz)	INST TEMP (° C)	RESIDUAL (° C)
-1.5000	2907.556	-1.4999	0.00008
1.0000	3076.090	1.0000	-0.00004
4.5000	3323.753	4.4999	-0.00013
8.0000	3585.447	7.9999	-0.00005
11.5000	3861.550	11.5001	0.00006
15.0000	4152.436	15.0002	0.00015
18.5000	4458.460	18.5001	0.00010
22.0000	4779.982	21.9999	-0.00005
25.5000	5117.359	25.4998	-0.00017
29.0000	5470.945	28.9999	-0.00008
32.5000	5841.053	32.5001	0.00012

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

