

Sea-Bird Electronics, Inc.

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SENSOR SERIAL NUMBER: 2946

CALIBRATION DATE: 05-May-17

SBE 3 TEMPERATURE CALIBRATION DATA

ITS-90 TEMPERATURE SCALE

COEFFICIENTS:

g = 4.34361896e-003

h = 6.38301620e-004

i = 2.07948277e-005

j = 1.69651641e-006

f0 = 1000.0

BATH TEMP (° C)	INSTRUMENT OUTPUT (Hz)	INST TEMP (° C)	RESIDUAL (° C)
-1.5000	2921.023	-1.4999	0.00008
1.0000	3089.469	0.9999	-0.00008
4.5000	3336.951	4.4999	-0.00006
8.0000	3598.364	7.9999	-0.00005
11.5000	3874.101	11.5001	0.00008
15.0000	4164.526	15.0002	0.00021
18.5000	4469.960	18.4999	-0.00009
22.0001	4790.825	22.0000	-0.00014
25.5000	5127.431	25.5000	0.00003
29.0001	5480.108	29.0001	0.00000
32.5000	5849.155	32.5000	0.00002

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

