

Sea-Bird Electronics, Inc.

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SENSOR SERIAL NUMBER: 0355
CALIBRATION DATE: 24-Jan-17

SBE 19 TEMPERATURE CALIBRATION DATA
ITS-90 TEMPERATURE SCALE

COEFFICIENTS:

g = 4.15754910e-003
h = 5.81906742e-004
i = 9.92748929e-007
j = -2.21406610e-006
f0 = 1000.0

BATH TEMP (° C)	INSTRUMENT OUTPUT (Hz)	INST TEMP (° C)	RESIDUAL (° C)
1.0000	2411.351	0.9998	-0.00022
4.5000	2612.338	4.5004	0.00041
15.0000	3285.921	14.9997	-0.00029
18.5000	3535.244	18.4999	-0.00014
24.0000	3953.391	24.0002	0.00020
29.0000	4362.452	29.0003	0.00029
32.5000	4665.708	32.4998	-0.00024

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

