

Sea-Bird Electronics, Inc.

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SENSOR SERIAL NUMBER: 0650
CALIBRATION DATE: 14-Jan-17

SBE 19 TEMPERATURE CALIBRATION DATA
ITS-90 TEMPERATURE SCALE

COEFFICIENTS:

g = 4.12125656e-003
h = 5.87883997e-004
i = 5.54427026e-006
j = -1.77007255e-006
f0 = 1000.0

BATH TEMP (° C)	INSTRUMENT OUTPUT (Hz)	INST TEMP (° C)	RESIDUAL (° C)
1.0000	2255.760	0.9997	-0.00032
4.5000	2443.761	4.5006	0.00059
15.0000	3074.829	14.9996	-0.00044
18.5000	3308.830	18.4999	-0.00013
24.0000	3701.713	24.0002	0.00016
29.0000	4086.603	29.0005	0.00053
32.5000	4372.207	32.4996	-0.00039

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

