

Sea-Bird Electronics, Inc.

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SENSOR SERIAL NUMBER: 1448
CALIBRATION DATE: 20-Jan-17

SBE 19 TEMPERATURE CALIBRATION DATA
ITS-90 TEMPERATURE SCALE

COEFFICIENTS:

g = 4.21778928e-003
h = 5.92951236e-004
i = 9.31278513e-007
j = -2.56635673e-006
f0 = 1000.0

BATH TEMP (° C)	INSTRUMENT OUTPUT (Hz)	INST TEMP (° C)	RESIDUAL (° C)
1.0000	2629.850	0.9999	-0.00011
4.5000	2845.579	4.5002	0.00019
15.0000	3567.539	14.9999	-0.00007
18.5000	3834.386	18.4998	-0.00023
23.9999	4281.649	24.0002	0.00028
29.0000	4718.850	29.0000	-0.00001
32.5000	5042.871	32.4999	-0.00006

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

