

Sea-Bird Electronics, Inc.

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SENSOR SERIAL NUMBER: 0658
CALIBRATION DATE: 28-Jan-17

SBE 16 TEMPERATURE CALIBRATION DATA
ITS-90 TEMPERATURE SCALE

COEFFICIENTS:

g = 4.19149731e-003
h = 5.94937906e-004
i = 6.76896907e-006
j = -1.06618368e-006
f0 = 1000.0

BATH TEMP (° C)	INSTRUMENT OUTPUT (Hz)	INST TEMP (° C)	RESIDUAL (° C)
1.0000	2522.637	1.0000	-0.00003
4.5000	2731.187	4.5000	0.00004
15.0000	3430.404	15.0002	0.00016
18.5000	3689.181	18.4998	-0.00017
24.0000	4123.193	23.9997	-0.00029
29.0000	4547.832	29.0006	0.00057
32.5000	4862.515	32.4997	-0.00028

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

