

Sea-Bird Electronics, Inc.

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SENSOR SERIAL NUMBER: 3269
CALIBRATION DATE: 17-Jan-17

SBE 21 TEMPERATURE CALIBRATION DATA
ITS-90 TEMPERATURE SCALE

COEFFICIENTS:

g = 4.21645453e-003
h = 6.24984516e-004
i = 1.74124848e-005
j = 7.41913675e-007
f0 = 1000.0

BATH TEMP (° C)	INSTRUMENT OUTPUT (Hz)	INST TEMP (° C)	RESIDUAL (° C)
1.0000	2543.234	0.9999	-0.00009
4.5000	2748.216	4.5002	0.00017
15.0000	3434.515	14.9998	-0.00021
18.5000	3688.251	18.5001	0.00012
24.0000	4113.357	23.9999	-0.00006
29.0000	4528.795	29.0002	0.00018
32.5000	4836.468	32.4999	-0.00011

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

