

Sea-Bird Electronics, Inc.

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SENSOR SERIAL NUMBER: 0521
CALIBRATION DATE: 21-Nov-15

SBE 16 TEMPERATURE CALIBRATION DATA
ITS-90 TEMPERATURE SCALE

COEFFICIENTS:

g = 4.24372329e-003
h = 6.10763481e-004
i = 7.56023053e-006
j = -1.06606489e-006
f0 = 1000.0

BATH TEMP (° C)	INSTRUMENT OUTPUT (Hz)	INST TEMP (° C)	RESIDUAL (° C)
0.9999	2690.649	0.9998	-0.00008
4.5000	2908.053	4.5001	0.00013
15.0000	3634.608	15.0000	0.00004
18.5000	3902.737	18.4998	-0.00019
23.9999	4351.616	23.9998	-0.00010
29.0000	4789.877	29.0004	0.00042
32.5000	5114.170	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

