

Sea-Bird Electronics, Inc.

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SENSOR SERIAL NUMBER: 0262
CALIBRATION DATE: 13-Jan-12

SBE16 TEMPERATURE CALIBRATION DATA
ITS-90 TEMPERATURE SCALE

ITS-90 COEFFICIENTS

g = 4.21412944e-003
h = 6.02073001e-004
i = 1.62116374e-006
j = -2.49623269e-006
f0 = 1000.0

IPTS-68 COEFFICIENTS

a = 3.64763628e-003
b = 5.92430631e-004
c = 8.73687840e-006
d = -2.49591163e-006
f0 = 2577.532

BATH TEMP (ITS-90)	INSTRUMENT FREQ (Hz)	INST TEMP (ITS-90)	RESIDUAL (ITS-90)
1.0000	2577.532	0.9999	-0.00010
4.5000	2785.877	4.5002	0.00018
14.9999	3481.596	14.9997	-0.00017
18.5000	3738.251	18.5000	0.00001
24.0000	4167.778	24.0001	0.00005
29.0000	4587.053	29.0001	0.00013
32.5000	4897.380	32.4999	-0.00010

Temperature ITS-90 = $1/[g + h[\ln(f_0/f)] + i[\ln^2(f_0/f)] + j[\ln^3(f_0/f)]] - 273.15$ (°C)

Temperature IPTS-68 = $1/[a + b[\ln(f_0/f)] + c[\ln^2(f_0/f)] + d[\ln^3(f_0/f)]] - 273.15$ (°C)

Following the recommendation of JPOTS: T_{68} is assumed to be $1.00024 * T_{90}$ (-2 to 35 °C)

Residual = instrument temperature - bath temperature

