

Sea-Bird Electronics, Inc.

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SENSOR SERIAL NUMBER: 0701
CALIBRATION DATE: 06-Mar-15

SBE 3 TEMPERATURE CALIBRATION DATA
ITS-90 TEMPERATURE SCALE

ITS-90 COEFFICIENTS:

g = 4.81907091e-003
h = 6.81849669e-004
i = 3.09872767e-005
j = 2.88395818e-006
f0 = 1000.0

BATH TEMP (ITS-90)	INSTRUMENT FREQ (Hz)	INST TEMP (ITS-90)	RESIDUAL (ITS-90)
-1.5001	5990.430	-1.5001	0.00005
0.9999	6336.462	0.9999	0.00004
4.5000	6844.859	4.4999	-0.00014
8.0000	7381.916	7.9999	-0.00013
11.4999	7948.376	11.5000	0.00005
14.9999	8544.948	15.0001	0.00016
18.5000	9172.305	18.5001	0.00012
22.0000	9831.087	22.0000	0.00005
25.4999	10521.904	25.4998	-0.00014
29.0000	11245.433	28.9997	-0.00031
32.4999	12002.313	32.5001	0.00024

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)

Residual = instrument temperature - bath temperature

