

# Sea-Bird Electronics, Inc.

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SENSOR SERIAL NUMBER: 0701  
CALIBRATION DATE: 17-Nov-15

SBE 3 TEMPERATURE CALIBRATION DATA  
ITS-90 TEMPERATURE SCALE

## COEFFICIENTS:

g = 4.81946726e-003  
h = 6.82405043e-004  
i = 3.12366029e-005  
j = 2.92086695e-006  
f0 = 1000.0

BATH TEMP (° C)	INSTRUMENT OUTPUT (Hz)	INST TEMP (° C)	RESIDUAL (° C)
-1.5000	5990.339	-1.4999	0.00006
1.0000	6336.347	1.0000	-0.00002
4.5000	6844.729	4.4999	-0.00007
8.0000	7381.771	7.9999	-0.00007
11.5000	7948.216	11.5000	-0.00001
15.0000	8544.780	15.0001	0.00010
18.5000	9172.128	18.5001	0.00015
22.0000	9830.906	22.0001	0.00008
25.5000	10521.727	25.4999	-0.00014
29.0001	11245.253	28.9998	-0.00029
32.5001	12002.137	32.5003	0.00022

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

