

# Sea-Bird Electronics, Inc.

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SENSOR SERIAL NUMBER: 0653  
CALIBRATION DATE: 06-Feb-15

SBE 16 TEMPERATURE CALIBRATION DATA  
ITS-90 TEMPERATURE SCALE

## ITS-90 COEFFICIENTS:

g = 4.22765225e-003  
h = 5.91234274e-004  
i = 5.88750810e-006  
j = -1.12505957e-006  
f0 = 1000.0

BATH TEMP (ITS-90)	INSTRUMENT FREQ (Hz)	INST TEMP (ITS-90)	RESIDUAL (ITS-90)
1.0000	2698.497	0.9999	-0.00009
4.5000	2922.977	4.5002	0.00017
15.0000	3676.074	14.9998	-0.00020
18.4999	3955.035	18.5000	0.00014
23.9999	4423.006	23.9998	-0.00015
28.9999	4881.058	29.0002	0.00029
32.5000	5220.702	32.4998	-0.00016

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

