

# Sea-Bird Electronics, Inc.

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SENSOR SERIAL NUMBER: 5774  
CALIBRATION DATE: 08-Dec-15

SBE 3 TEMPERATURE CALIBRATION DATA  
ITS-90 TEMPERATURE SCALE

## COEFFICIENTS:

g = 4.33669763e-003  
h = 6.27138791e-004  
i = 1.94754102e-005  
j = 1.45558409e-006  
f0 = 1000.0

BATH TEMP (° C)	INSTRUMENT OUTPUT (Hz)	INST TEMP (° C)	RESIDUAL (° C)
-1.5000	2940.004	-1.5000	-0.00005
1.0000	3112.327	1.0001	0.00006
4.5000	3365.738	4.5000	0.00003
8.0000	3633.735	8.0000	-0.00002
11.5000	3916.745	11.5000	-0.00001
15.0000	4215.177	15.0000	0.00000
18.5001	4529.435	18.5000	-0.00008
22.0000	4859.910	22.0000	0.00002
25.5000	5206.989	25.5000	0.00003
29.0000	5571.044	29.0001	0.00006
32.5001	5952.430	32.5000	-0.00005

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

