

# Sea-Bird Electronics, Inc.

13431 NE 20th Street, Bellevue, WA 98005-2010 USA

Phone: (+1) 425-643-9866 Fax (+1) 425-643-9954 Email: seabird@seabird.com

SENSOR SERIAL NUMBER: 0997  
CALIBRATION DATE: 02-Jul-14

SBE 3 TEMPERATURE CALIBRATION DATA  
ITS-90 TEMPERATURE SCALE

## ITS-90 COEFFICIENTS:

g = 4.88342515e-003  
h = 6.82018895e-004  
i = 2.81692768e-005  
j = 2.32615027e-006  
f0 = 1000.0

BATH TEMP (ITS-90)	INSTRUMENT FREQ (Hz)	INST TEMP (ITS-90)	RESIDUAL (ITS-90)
-1.5000	6598.688	-1.5000	-0.00001
1.0000	6978.579	1.0000	0.00001
4.5000	7536.546	4.5000	0.00001
8.0000	8125.741	8.0000	-0.00001
11.5000	8746.990	11.5000	0.00003
15.0000	9401.054	15.0000	-0.00001
18.5000	10088.713	18.5000	-0.00002
22.0000	10810.685	21.9999	-0.00006
25.5000	11567.714	25.5001	0.00007
29.0000	12360.399	29.0000	0.00004
32.5000	13189.395	32.5000	-0.00004

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

