

# 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: 4360  
CALIBRATION DATE: 20-Jan-16

SBE 3 TEMPERATURE CALIBRATION DATA  
ITS-90 TEMPERATURE SCALE

## COEFFICIENTS:

g = 4.36265052e-003  
h = 6.49800036e-004  
i = 2.30621342e-005  
j = 1.84888934e-006  
f0 = 1000.0

BATH TEMP (° C)	INSTRUMENT OUTPUT (Hz)	INST TEMP (° C)	RESIDUAL (° C)
-1.5000	2965.294	-1.5000	0.00002
1.0000	3134.396	1.0000	-0.00001
4.5000	3382.720	4.5000	-0.00003
8.0000	3644.907	8.0000	-0.00002
11.5000	3921.333	11.5000	0.00000
15.0000	4212.371	15.0001	0.00007
18.5000	4518.365	18.5000	-0.00000
22.0000	4839.683	22.0000	0.00000
25.5000	5176.655	25.5000	-0.00001
29.0001	5529.616	29.0000	-0.00007
32.5000	5898.875	32.5001	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

