

# 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: 2265  
CALIBRATION DATE: 11-Mar-17

SBE 3 TEMPERATURE CALIBRATION DATA  
ITS-90 TEMPERATURE SCALE

## COEFFICIENTS:

g = 4.33180814e-003  
h = 6.43843418e-004  
i = 2.35638501e-005  
j = 2.22412609e-006  
f0 = 1000.0

BATH TEMP (° C)	INSTRUMENT OUTPUT (Hz)	INST TEMP (° C)	RESIDUAL (° C)
-1.5000	2848.030	-1.4999	0.00007
1.0000	3011.652	0.9999	-0.00006
4.5000	3252.040	4.4999	-0.00007
8.0000	3505.960	8.0000	-0.00005
11.5000	3773.783	11.5000	0.00004
15.0000	4055.862	15.0001	0.00014
18.5000	4352.526	18.5000	0.00003
22.0000	4664.129	22.0000	-0.00005
25.5000	4990.994	25.4999	-0.00011
29.0000	5333.445	29.0000	-0.00003
32.5000	5691.772	32.5001	0.00007

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

