



Sea-Bird Scientific
13431 NE 20th Street
Bellevue, WA 98005
USA

+1 425-643-9866
seabird@seabird.com
www.seabird.com

SENSOR SERIAL NUMBER: 5207
CALIBRATION DATE: 27-Jan-18

SBE 3 TEMPERATURE CALIBRATION DATA
ITS-90 TEMPERATURE SCALE

COEFFICIENTS:

g = 4.32464593e-003
h = 6.34106918e-004
i = 2.11331215e-005
j = 1.86571590e-006
f0 = 1000.0

BATH TEMP (° C)	INSTRUMENT OUTPUT (Hz)	INST TEMP (° C)	RESIDUAL (° C)
-1.5000	2851.741	-1.5000	0.00004
1.0000	3017.225	1.0000	-0.00001
4.5001	3260.444	4.5000	-0.00012
8.0000	3517.482	8.0000	0.00004
11.5000	3788.713	11.5000	0.00004
15.0000	4074.512	15.0000	0.00003
18.5000	4375.241	18.5000	0.00001
22.0000	4691.258	22.0000	0.00003
25.5001	5022.898	25.5000	-0.00005
29.0001	5370.486	29.0000	-0.00008
32.5000	5734.351	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

