



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

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

SENSOR SERIAL NUMBER: 5237
CALIBRATION DATE: 17-Nov-22

SBE 3 TEMPERATURE CALIBRATION DATA
ITS-90 TEMPERATURE SCALE

COEFFICIENTS:

g = 4.40968441e-003
h = 6.79096450e-004
i = 2.80062837e-005
j = 2.09474490e-006
f0 = 1000.0

BATH TEMP (° C)	INSTRUMENT OUTPUT (Hz)	INST TEMP (° C)	RESIDUAL (° C)
-1.5000	3065.238	-1.4999	0.00008
1.0000	3234.890	0.9999	-0.00008
4.5000	3483.719	4.4999	-0.00010
8.0000	3746.082	8.0000	0.00004
11.5000	4022.320	11.5001	0.00006
15.0000	4312.797	15.0001	0.00008
18.5000	4617.849	18.5000	-0.00001
22.0000	4937.824	21.9999	-0.00007
25.5000	5273.053	25.4999	-0.00007
29.0000	5623.857	29.0000	0.00003
32.5000	5990.521	32.5000	0.00002

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

