



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

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

SENSOR SERIAL NUMBER: 1652
CALIBRATION DATE: 09-Sep-23

SBE 3 TEMPERATURE CALIBRATION DATA
ITS-90 TEMPERATURE SCALE

COEFFICIENTS:

g = 4.79288799e-003
h = 6.68584199e-004
i = 2.55227154e-005
j = 2.07700077e-006
f0 = 1000.0

BATH TEMP (° C)	INSTRUMENT OUTPUT (Hz)	INST TEMP (° C)	RESIDUAL (° C)
-1.5000	5838.826	-1.5000	0.00004
1.0000	6176.481	1.0000	-0.00002
4.5000	6672.530	4.4999	-0.00007
8.0000	7196.494	8.0000	-0.00003
11.5000	7749.108	11.5001	0.00006
15.0000	8331.077	15.0001	0.00013
18.5000	8943.049	18.4999	-0.00007
22.0000	9585.771	21.9999	-0.00008
25.5000	10259.876	25.5000	0.00002
29.0000	10965.934	29.0000	-0.00001
32.5000	11704.573	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

