



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

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

SENSOR SERIAL NUMBER: 0798
CALIBRATION DATE: 25-Apr-24

SBE 3 TEMPERATURE CALIBRATION DATA
ITS-90 TEMPERATURE SCALE

COEFFICIENTS:

g = 4.85921300e-003
h = 6.80537615e-004
i = 2.84288125e-005
j = 2.39098057e-006
f0 = 1000.0

BATH TEMP (° C)	INSTRUMENT OUTPUT (Hz)	INST TEMP (° C)	RESIDUAL (° C)
-1.5000	6372.236	-1.5000	0.00002
1.0000	6739.544	1.0000	-0.00000
4.5001	7279.107	4.5000	-0.00006
8.0001	7848.951	8.0001	0.00000
11.5000	8449.844	11.5000	0.00004
15.0000	9082.594	15.0001	0.00009
18.5000	9747.883	18.4999	-0.00006
22.0000	10446.482	21.9999	-0.00007
25.5000	11179.069	25.5000	-0.00000
29.0001	11946.302	29.0002	0.00008
32.5000	12748.691	32.5000	-0.00003

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

