



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

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

SENSOR SERIAL NUMBER: 5584
CALIBRATION DATE: 03-Jun-23

SBE 3 TEMPERATURE CALIBRATION DATA
ITS-90 TEMPERATURE SCALE

COEFFICIENTS:

g = 4.40699920e-003
h = 6.41914617e-004
i = 2.32997107e-005
j = 2.21226469e-006
f0 = 1000.0

BATH TEMP (° C)	INSTRUMENT OUTPUT (Hz)	INST TEMP (° C)	RESIDUAL (° C)
-1.5000	3238.808	-1.4999	0.00008
1.0000	3426.630	0.9999	-0.00012
4.5000	3702.708	4.5000	0.00003
8.0000	3994.442	7.9999	-0.00005
11.5000	4302.296	11.5001	0.00009
15.0000	4626.649	15.0000	0.00002
18.5000	4967.926	18.5000	0.00001
22.0000	5326.508	22.0000	-0.00005
25.5000	5702.784	25.5000	-0.00001
29.0000	6097.099	29.0000	-0.00003
32.5000	6509.814	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

