



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

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

SENSOR SERIAL NUMBER: 1692
CALIBRATION DATE: 02-Aug-23

SBE 3 TEMPERATURE CALIBRATION DATA
ITS-90 TEMPERATURE SCALE

COEFFICIENTS:

g = 4.80107887e-003
h = 6.70757006e-004
i = 2.50419611e-005
j = 1.93648137e-006
f0 = 1000.0

BATH TEMP (° C)	INSTRUMENT OUTPUT (Hz)	INST TEMP (° C)	RESIDUAL (° C)
-1.5000	5874.251	-1.5000	0.00000
1.0000	6212.580	1.0000	-0.00001
4.5000	6709.506	4.5000	-0.00000
8.0000	7234.252	8.0000	0.00002
11.5000	7787.551	11.5000	0.00002
15.0000	8370.121	15.0000	0.00003
18.5000	8982.618	18.4999	-0.00015
22.0000	9625.814	22.0001	0.00005
25.5000	10300.253	25.5001	0.00007
29.0000	11006.562	29.0000	-0.00003
32.4999	11745.362	32.4999	-0.00001

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

