



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

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

SENSOR SERIAL NUMBER: 1701
CALIBRATION DATE: 26-Apr-22

SBE 3 TEMPERATURE CALIBRATION DATA
ITS-90 TEMPERATURE SCALE

COEFFICIENTS:

g = 4.39856199e-003
h = 6.44777133e-004
i = 2.31479390e-005
j = 2.20015200e-006
f0 = 1000.0

BATH TEMP (° C)	INSTRUMENT OUTPUT (Hz)	INST TEMP (° C)	RESIDUAL (° C)
-1.5000	3174.696	-1.5000	0.00002
1.0000	3357.615	1.0000	-0.00001
4.5000	3626.331	4.5000	-0.00003
8.0000	3910.155	8.0000	-0.00002
11.5000	4209.491	11.5000	0.00001
15.0000	4524.731	15.0001	0.00008
18.5000	4856.235	18.5000	-0.00002
22.0000	5204.394	22.0000	-0.00001
25.5000	5569.548	25.5000	-0.00002
29.0000	5952.039	29.0000	-0.00001
32.5000	6352.191	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

