



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

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

SENSOR SERIAL NUMBER: 1075
CALIBRATION DATE: 02-Aug-23

SBE 3 TEMPERATURE CALIBRATION DATA
ITS-90 TEMPERATURE SCALE

COEFFICIENTS:

g = 4.86355918e-003
h = 6.80948172e-004
i = 2.60467520e-005
j = 1.88697417e-006
f0 = 1000.0

BATH TEMP (° C)	INSTRUMENT OUTPUT (Hz)	INST TEMP (° C)	RESIDUAL (° C)
-1.5000	6357.668	-1.5000	0.00005
1.0000	6721.566	1.0000	-0.00003
4.5000	7255.920	4.4999	-0.00006
8.0000	7820.047	8.0000	-0.00002
11.5000	8414.727	11.5000	0.00002
15.0000	9040.740	15.0001	0.00012
18.5000	9698.774	18.5000	-0.00003
22.0000	10389.628	22.0000	0.00000
25.5000	11113.947	25.4999	-0.00005
29.0000	11872.430	28.9999	-0.00006
32.4999	12665.717	32.5000	0.00006

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

