



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

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

SENSOR SERIAL NUMBER: 5207
CALIBRATION DATE: 26-Jul-23

SBE 3 TEMPERATURE CALIBRATION DATA
ITS-90 TEMPERATURE SCALE

COEFFICIENTS:

g = 4.32472757e-003
h = 6.34333791e-004
i = 2.12786349e-005
j = 1.89682140e-006
f0 = 1000.0

BATH TEMP (° C)	INSTRUMENT OUTPUT (Hz)	INST TEMP (° C)	RESIDUAL (° C)
-1.5000	2851.587	-1.5000	0.00003
1.0000	3017.055	1.0000	-0.00002
4.5000	3260.251	4.4999	-0.00005
8.0000	3517.266	8.0000	-0.00003
11.5000	3788.482	11.5000	0.00005
15.0000	4074.261	15.0000	0.00004
18.5000	4374.971	18.5000	0.00002
22.0000	4690.965	22.0000	0.00002
25.5000	5022.573	25.4999	-0.00007
29.0000	5370.142	28.9999	-0.00005
32.4999	5733.977	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

