



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

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

SENSOR SERIAL NUMBER: 2946
CALIBRATION DATE: 04-Feb-20

SBE 3 TEMPERATURE CALIBRATION DATA
ITS-90 TEMPERATURE SCALE

COEFFICIENTS:

g = 4.34377558e-003
h = 6.38669360e-004
i = 2.10662968e-005
j = 1.76231867e-006
f0 = 1000.0

BATH TEMP (° C)	INSTRUMENT OUTPUT (Hz)	INST TEMP (° C)	RESIDUAL (° C)
-1.5000	2920.989	-1.4999	0.00006
1.0000	3089.435	1.0000	-0.00004
4.5000	3336.908	4.4999	-0.00007
8.0000	3598.318	7.9999	-0.00007
11.5000	3874.053	11.5000	0.00004
15.0000	4164.483	15.0003	0.00025
18.5000	4469.915	18.4999	-0.00006
22.0000	4790.764	21.9999	-0.00014
25.5000	5127.371	25.5000	-0.00000
29.0000	5480.028	29.0000	-0.00001
32.5000	5849.070	32.5000	0.00004

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

