



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

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

SENSOR SERIAL NUMBER: 5140
CALIBRATION DATE: 13-May-22

SBE 3 TEMPERATURE CALIBRATION DATA
ITS-90 TEMPERATURE SCALE

COEFFICIENTS:

g = 4.36460443e-003
h = 6.40842314e-004
i = 2.21838731e-005
j = 2.05084824e-006
f0 = 1000.0

BATH TEMP (° C)	INSTRUMENT OUTPUT (Hz)	INST TEMP (° C)	RESIDUAL (° C)
-1.5000	3017.141	-1.5000	0.00000
1.0000	3191.209	1.0000	0.00002
4.5000	3446.931	4.5000	-0.00005
8.0000	3717.057	8.0000	-0.00004
11.5000	4001.977	11.5001	0.00005
15.0000	4302.057	15.0001	0.00010
18.5000	4617.645	18.4999	-0.00008
22.0000	4949.135	22.0000	-0.00004
25.5000	5296.848	25.5000	0.00000
29.0000	5661.110	29.0000	0.00003
32.5000	6042.231	32.5000	-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

