



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: 07-Feb-20

SBE 3 TEMPERATURE CALIBRATION DATA
ITS-90 TEMPERATURE SCALE

COEFFICIENTS:

g = 4.87262496e-003
h = 6.66337212e-004
i = 2.22054079e-005
j = 1.53842701e-006
f0 = 1000.0

BATH TEMP (° C)	INSTRUMENT OUTPUT (Hz)	INST TEMP (° C)	RESIDUAL (° C)
-1.5000	6630.136	-1.5000	-0.00003
1.0000	7012.914	1.0000	-0.00000
4.5000	7575.064	4.5001	0.00008
8.0000	8168.586	8.0000	0.00004
11.5000	8794.322	11.5000	-0.00003
15.0000	9453.081	14.9999	-0.00009
18.5000	10145.659	18.5000	-0.00005
22.0000	10872.798	22.0000	0.00002
25.5000	11635.220	25.5001	0.00008
29.0000	12433.607	29.0001	0.00007
32.5000	13268.616	32.4999	-0.00008

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

