



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

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

SENSOR SERIAL NUMBER: 6042
CALIBRATION DATE: 13-Dec-17

SBE 3 TEMPERATURE CALIBRATION DATA
ITS-90 TEMPERATURE SCALE

COEFFICIENTS:

g = 4.34195083e-003
h = 6.29488432e-004
i = 1.96647926e-005
j = 1.41161662e-006
f0 = 1000.0

BATH TEMP (° C)	INSTRUMENT OUTPUT (Hz)	INST TEMP (° C)	RESIDUAL (° C)
-1.5000	2954.920	-1.5000	0.00001
1.0000	3127.617	0.9999	-0.00005
4.5000	3381.573	4.5001	0.00006
8.0000	3650.100	8.0000	0.00004
11.5001	3933.631	11.5000	-0.00007
15.0000	4232.574	15.0000	-0.00001
18.5000	4547.342	18.5000	-0.00000
22.0000	4878.325	22.0000	0.00001
25.5000	5225.908	25.5000	0.00003
29.0000	5590.459	29.0000	-0.00001
32.5000	5972.349	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

