



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

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

SENSOR SERIAL NUMBER: 4312
 CALIBRATION DATE: 16-Jan-19

SBE 3 TEMPERATURE CALIBRATION DATA
 ITS-90 TEMPERATURE SCALE

COEFFICIENTS:

g = 4.38269975e-003
 h = 6.51399168e-004
 i = 2.32837507e-005
 j = 1.87923469e-006
 f0 = 1000.0

BATH TEMP (° C)	INSTRUMENT OUTPUT (Hz)	INST TEMP (° C)	RESIDUAL (° C)
-1.5000	3057.246	-1.4999	0.00005
1.0000	3231.531	0.9999	-0.00005
4.5000	3487.468	4.5000	-0.00005
8.0000	3757.680	8.0000	-0.00002
11.5000	4042.558	11.5001	0.00007
15.0000	4342.470	15.0001	0.00007
18.5000	4657.781	18.5000	-0.00003
22.0000	4988.866	22.0000	-0.00004
25.5000	5336.068	25.5000	-0.00002
29.0000	5699.718	29.0000	-0.00000
32.5000	6080.140	32.5000	0.00002

f = Instrument Output (Hz)

$$\text{Temperature ITS-90 (°C)} = 1 / \{g + h[\ln(f_0 / f)] + i[\ln^2(f_0 / f)] + j[\ln^3(f_0 / f)]\} - 273.15$$

$$\text{Residual (°C)} = \text{instrument temperature} - \text{bath temperature}$$

