



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

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

SENSOR SERIAL NUMBER: 5348
 CALIBRATION DATE: 01-Feb-20

SBE 3 TEMPERATURE CALIBRATION DATA
 ITS-90 TEMPERATURE SCALE

COEFFICIENTS:

g = 4.36767060e-003
 h = 6.36964342e-004
 i = 2.16617949e-005
 j = 1.90981646e-006
 f0 = 1000.0

BATH TEMP (° C)	INSTRUMENT OUTPUT (Hz)	INST TEMP (° C)	RESIDUAL (° C)
-1.5000	3052.288	-1.5000	0.00001
1.0000	3229.476	1.0000	0.00000
4.5000	3489.898	4.5000	-0.00002
8.0000	3765.121	8.0000	-0.00001
11.5000	4055.552	11.5000	0.00001
15.0000	4361.595	15.0001	0.00010
18.5000	4683.608	18.4999	-0.00007
22.0000	5022.006	21.9999	-0.00007
25.5000	5377.145	25.5000	0.00001
29.0000	5749.368	29.0001	0.00009
32.5001	6139.001	32.5001	-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

