



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

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

SENSOR SERIAL NUMBER: 5508
 CALIBRATION DATE: 22-Feb-24

SBE 3 TEMPERATURE CALIBRATION DATA
 ITS-90 TEMPERATURE SCALE

COEFFICIENTS:

g = 4.33577131e-003
 h = 6.28982246e-004
 i = 1.96966446e-005
 j = 1.45232568e-006
 f0 = 1000.0

BATH TEMP (° C)	INSTRUMENT OUTPUT (Hz)	INST TEMP (° C)	RESIDUAL (° C)
-1.5000	2926.849	-1.5001	-0.00007
1.0000	3097.963	1.0001	0.00009
4.5000	3349.560	4.5001	0.00006
8.0001	3615.601	8.0000	-0.00008
11.5001	3896.511	11.5001	-0.00004
15.0000	4192.690	15.0001	0.00008
18.5000	4504.522	18.4999	-0.00008
22.0000	4832.434	22.0000	0.00001
25.5001	5176.788	25.5001	0.00002
29.0001	5537.941	29.0002	0.00006
32.5001	5916.241	32.5001	-0.00005

f = Instrument Output (Hz)

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

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

