



Sea-Bird Scientific  
13431 NE 20<sup>th</sup> Street  
Bellevue, WA 98005  
USA

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

SENSOR SERIAL NUMBER: 4443  
CALIBRATION DATE: 06-Jan-23

SBE 3 TEMPERATURE CALIBRATION DATA  
ITS-90 TEMPERATURE SCALE

COEFFICIENTS:

g = 4.41141468e-003  
h = 6.42215860e-004  
i = 2.20886275e-005  
j = 1.92015341e-006  
f0 = 1000.0

BATH TEMP (° C)	INSTRUMENT OUTPUT (Hz)	INST TEMP (° C)	RESIDUAL (° C)
-1.5001	3254.337	-1.5001	0.00005
1.0000	3442.489	1.0000	-0.00004
4.5000	3718.944	4.4999	-0.00007
8.0000	4011.023	8.0000	0.00003
11.5000	4319.132	11.5000	0.00003
15.0000	4643.697	15.0001	0.00006
18.5000	4985.107	18.5000	-0.00001
22.0000	5343.763	21.9999	-0.00006
25.5000	5720.050	25.5000	-0.00002
29.0000	6114.319	29.0000	-0.00000
32.5000	6526.922	32.5000	0.00002

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

