



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: 4862  
 CALIBRATION DATE: 26-Mar-22

SBE 3 TEMPERATURE CALIBRATION DATA  
 ITS-90 TEMPERATURE SCALE

COEFFICIENTS:

g = 4.33954935e-003  
 h = 6.38717116e-004  
 i = 2.08791616e-005  
 j = 1.76141896e-006  
 f0 = 1000.0

BATH TEMP (° C)	INSTRUMENT OUTPUT (Hz)	INST TEMP (° C)	RESIDUAL (° C)
-1.5000	2899.212	-1.4999	0.00008
1.0000	3066.203	0.9999	-0.00006
4.5000	3311.515	4.4999	-0.00009
8.0000	3570.609	8.0000	-0.00005
11.5000	3843.858	11.5000	0.00004
15.0000	4131.621	15.0001	0.00012
18.5000	4434.243	18.5001	0.00009
22.0000	4752.069	22.0000	-0.00000
25.5000	5085.429	25.4998	-0.00018
29.0000	5434.678	28.9999	-0.00007
32.5000	5800.107	32.5001	0.00011

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

