



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: 4333  
CALIBRATION DATE: 31-Jan-24

SBE 3 TEMPERATURE CALIBRATION DATA  
ITS-90 TEMPERATURE SCALE

COEFFICIENTS:

g = 4.34818646e-003  
h = 6.40504800e-004  
i = 2.24730152e-005  
j = 2.10891428e-006  
f0 = 1000.0

BATH TEMP (° C)	INSTRUMENT OUTPUT (Hz)	INST TEMP (° C)	RESIDUAL (° C)
-1.5000	2938.742	-1.5000	0.00004
1.0000	3108.268	1.0000	-0.00004
4.5000	3357.348	4.5000	-0.00001
8.0001	3620.471	8.0001	-0.00005
11.5000	3898.010	11.5001	0.00005
15.0000	4190.336	15.0000	0.00002
18.5000	4497.813	18.5000	0.00004
22.0000	4820.777	22.0000	-0.00001
25.5001	5159.574	25.5000	-0.00010
29.0000	5514.522	29.0000	0.00004
32.5000	5885.919	32.5000	0.00001

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

