



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

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

SENSOR SERIAL NUMBER: 1609
CALIBRATION DATE: 31-Aug-23

SBE 3 TEMPERATURE CALIBRATION DATA
ITS-90 TEMPERATURE SCALE

COEFFICIENTS:

g = 4.80070420e-003
h = 6.71419213e-004
i = 2.68042008e-005
j = 2.29641887e-006
f0 = 1000.0

BATH TEMP (° C)	INSTRUMENT OUTPUT (Hz)	INST TEMP (° C)	RESIDUAL (° C)
-1.5000	5893.726	-1.5000	0.00000
1.0000	6234.513	1.0000	0.00000
4.5000	6735.155	4.5000	-0.00000
8.0000	7263.946	8.0000	-0.00001
11.5000	7821.628	11.5000	0.00001
15.0000	8408.907	15.0000	0.00001
18.5000	9026.473	18.5000	0.00002
22.0000	9674.978	22.0000	-0.00002
25.5000	10355.072	25.5000	-0.00004
28.9999	11067.357	28.9999	0.00005
32.5000	11812.422	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

