



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

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

SENSOR SERIAL NUMBER: 1075
CALIBRATION DATE: 08-Mar-21

SBE 3 TEMPERATURE CALIBRATION DATA
ITS-90 TEMPERATURE SCALE

COEFFICIENTS:

g = 4.86426742e-003
h = 6.81933203e-004
i = 2.65097336e-005
j = 1.95810717e-006
f0 = 1000.0

BATH TEMP (° C)	INSTRUMENT OUTPUT (Hz)	INST TEMP (° C)	RESIDUAL (° C)
-1.5000	6357.879	-1.5000	0.00004
1.0000	6721.794	1.0000	-0.00001
4.5000	7256.168	4.4999	-0.00008
8.0000	7820.329	8.0000	-0.00005
11.4999	8415.048	11.5000	0.00008
15.0000	9041.115	15.0001	0.00012
18.5000	9699.195	18.5000	-0.00004
22.0000	10390.096	22.0000	-0.00003
25.5000	11114.473	25.5000	-0.00004
29.0000	11873.000	29.0000	-0.00004
32.5000	12666.334	32.5000	0.00005

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

