



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

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

SENSOR SERIAL NUMBER: 5233
CALIBRATION DATE: 24-Jun-21

SBE 3 TEMPERATURE CALIBRATION DATA
ITS-90 TEMPERATURE SCALE

COEFFICIENTS:

g = 4.35377773e-003
h = 6.36588333e-004
i = 2.18758709e-005
j = 1.98559138e-006
f0 = 1000.0

BATH TEMP (° C)	INSTRUMENT OUTPUT (Hz)	INST TEMP (° C)	RESIDUAL (° C)
-1.5000	2984.818	-1.5000	0.00004
1.0000	3158.051	0.9999	-0.00005
4.5000	3412.676	4.5000	0.00001
8.0000	3681.764	8.0000	-0.00002
11.5000	3965.723	11.5000	-0.00001
15.0000	4264.945	15.0001	0.00007
18.5000	4579.788	18.5000	-0.00002
22.0000	4910.644	22.0000	0.00003
25.5000	5257.843	25.5000	-0.00004
29.0000	5621.743	28.9999	-0.00005
32.5000	6002.679	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

