



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

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

SENSOR SERIAL NUMBER: 1692
CALIBRATION DATE: 04-Oct-18

SBE 3 TEMPERATURE CALIBRATION DATA
ITS-90 TEMPERATURE SCALE

COEFFICIENTS:

g = 4.80189711e-003
h = 6.71909476e-004
i = 2.55735477e-005
j = 2.01679234e-006
f0 = 1000.0

BATH TEMP (° C)	INSTRUMENT OUTPUT (Hz)	INST TEMP (° C)	RESIDUAL (° C)
-1.5000	5874.238	-1.5000	0.00002
1.0000	6212.553	1.0000	-0.00001
4.5000	6709.460	4.4999	-0.00006
8.0000	7234.211	8.0000	-0.00001
11.5000	7787.537	11.5001	0.00011
15.0000	8370.109	15.0000	0.00004
18.5000	8982.624	18.4998	-0.00015
22.0000	9625.842	22.0000	0.00004
25.5000	10300.298	25.5000	0.00002
29.0000	11006.641	29.0000	-0.00001
32.5000	11745.478	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

