

Sea-Bird Electronics, Inc.

13431 NE 20th Street, Bellevue, WA 98005-2010 USA

Phone: (+1) 425-643-9866 Fax (+1) 425-643-9954 Email: seabird@seabird.com

SENSOR SERIAL NUMBER: 1692
CALIBRATION DATE: 29-Mar-16

SBE 3 TEMPERATURE CALIBRATION DATA
ITS-90 TEMPERATURE SCALE

COEFFICIENTS:

g = 4.80201164e-003
h = 6.72063599e-004
i = 2.56399086e-005
j = 2.02620092e-006
f0 = 1000.0

BATH TEMP (° C)	INSTRUMENT OUTPUT (Hz)	INST TEMP (° C)	RESIDUAL (° C)
-1.5000	5874.209	-1.5000	-0.00001
1.0000	6212.529	1.0000	0.00004
4.5000	6709.425	4.4999	-0.00005
8.0000	7234.166	8.0000	-0.00003
11.5000	7787.483	11.5001	0.00007
15.0000	8370.061	15.0001	0.00006
18.5000	8982.574	18.4999	-0.00013
22.0000	9625.781	22.0000	0.00002
25.5000	10300.242	25.5000	0.00004
29.0000	11006.584	29.0000	0.00000
32.5000	11745.413	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

