

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: 5237
CALIBRATION DATE: 04-Mar-17

SBE 3 TEMPERATURE CALIBRATION DATA
ITS-90 TEMPERATURE SCALE

COEFFICIENTS:

g = 4.40970622e-003
h = 6.79031364e-004
i = 2.79308079e-005
j = 2.07121126e-006
f0 = 1000.0

BATH TEMP (° C)	INSTRUMENT OUTPUT (Hz)	INST TEMP (° C)	RESIDUAL (° C)
-1.5000	3065.397	-1.5000	0.00003
1.0000	3235.060	1.0000	-0.00005
4.5000	3483.903	4.5000	0.00001
8.0000	3746.262	8.0000	-0.00001
11.5000	4022.512	11.5000	0.00003
15.0000	4313.000	15.0000	0.00005
18.5000	4618.066	18.5000	-0.00004
22.0000	4938.062	21.9999	-0.00006
25.5000	5273.322	25.5000	0.00004
29.0000	5624.139	29.0000	0.00002
32.5000	5990.832	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

