

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: 1364
CALIBRATION DATE: 23-Jun-15

SBE 3 TEMPERATURE CALIBRATION DATA
ITS-90 TEMPERATURE SCALE

ITS-90 COEFFICIENTS:

g = 4.84789685e-003
h = 6.77749890e-004
i = 2.48548656e-005
j = 1.80003639e-006
f0 = 1000.0

BATH TEMP (ITS-90)	INSTRUMENT FREQ (Hz)	INST TEMP (ITS-90)	RESIDUAL (ITS-90)
-1.5000	6219.616	-1.4999	0.00012
0.9999	6574.974	0.9998	-0.00005
4.5000	7096.685	4.4998	-0.00024
7.9999	7647.320	7.9999	-0.00004
11.4999	8227.618	11.5000	0.00013
14.9999	8838.314	15.0003	0.00037
18.5000	9479.988	18.4999	-0.00009
21.9999	10153.458	21.9997	-0.00022
25.4999	10859.440	25.4998	-0.00006
28.9999	11598.475	28.9999	0.00001
32.4999	12371.188	32.5000	0.00007

$$\text{Temperature ITS-90} = 1 / \{ g + h[\ln(f_0/f)] + i[\ln^2(f_0/f)] + j[\ln^3(f_0/f)] \} - 273.15 \text{ (}^\circ\text{C)}$$

Residual = instrument temperature - bath temperature

