

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: 1701
CALIBRATION DATE: 04-Mar-17

SBE 3 TEMPERATURE CALIBRATION DATA
ITS-90 TEMPERATURE SCALE

COEFFICIENTS:

g = 4.78977977e-003
h = 6.53102502e-004
i = 1.81634722e-005
j = 9.62694979e-007
f0 = 1000.0

BATH TEMP (° C)	INSTRUMENT OUTPUT (Hz)	INST TEMP (° C)	RESIDUAL (° C)
-1.5000	5911.726	-1.5000	0.00002
1.0000	6253.686	0.9999	-0.00008
4.5000	6755.957	4.5001	0.00007
8.0000	7286.300	8.0000	0.00002
11.5000	7845.510	11.5000	0.00002
15.0000	8434.327	15.0000	0.00005
18.5000	9053.428	18.4999	-0.00015
22.0000	9703.601	21.9999	-0.00010
25.5000	10385.526	25.5001	0.00013
29.0000	11099.785	29.0001	0.00013
32.5000	11847.012	32.4999	-0.00010

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

