

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: 4491
CALIBRATION DATE: 11-Mar-17

SBE 3 TEMPERATURE CALIBRATION DATA
ITS-90 TEMPERATURE SCALE

COEFFICIENTS:

g = 4.42645001e-003
h = 6.46318421e-004
i = 2.25202354e-005
j = 1.92432790e-006
f0 = 1000.0

BATH TEMP (° C)	INSTRUMENT OUTPUT (Hz)	INST TEMP (° C)	RESIDUAL (° C)
-1.5000	3313.295	-1.5000	0.00002
1.0000	3504.023	1.0000	-0.00002
4.5000	3784.202	4.5000	-0.00003
8.0000	4080.129	8.0000	0.00000
11.5000	4392.225	11.5000	0.00002
15.0000	4720.901	15.0000	-0.00001
18.5000	5066.573	18.5000	0.00004
22.0000	5429.613	22.0000	-0.00000
25.5000	5810.408	25.5000	-0.00004
29.0000	6209.326	29.0000	-0.00002
32.5000	6626.715	32.5000	0.00003

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

