

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: 0653
CALIBRATION DATE: 25-Nov-15

SBE 16 TEMPERATURE CALIBRATION DATA
ITS-90 TEMPERATURE SCALE

COEFFICIENTS:

g = 4.22869432e-003
h = 5.93636191e-004
i = 7.68363324e-006
j = -6.86307406e-007
f0 = 1000.0

BATH TEMP (° C)	INSTRUMENT OUTPUT (Hz)	INST TEMP (° C)	RESIDUAL (° C)
1.0000	2698.500	1.0001	0.00007
4.4998	2922.895	4.4996	-0.00016
15.0000	3676.068	15.0005	0.00046
18.5000	3954.965	18.4996	-0.00036
24.0000	4423.000	23.9997	-0.00026
29.0000	4881.084	29.0004	0.00044
32.5000	5220.678	32.4998	-0.00019

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

