

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: 1815
CALIBRATION DATE: 19-Nov-15

SBE 16 TEMPERATURE CALIBRATION DATA
ITS-90 TEMPERATURE SCALE

COEFFICIENTS:

g = 4.17203873e-003
h = 5.87258325e-004
i = 1.01194668e-006
j = -2.32973825e-006
f0 = 1000.0

BATH TEMP (° C)	INSTRUMENT OUTPUT (Hz)	INST TEMP (° C)	RESIDUAL (° C)
1.0000	2452.751	0.9997	-0.00027
4.5000	2655.445	4.5005	0.00050
15.0000	3333.968	14.9996	-0.00036
18.5000	3584.876	18.4998	-0.00022
24.0000	4005.455	24.0004	0.00039
29.0000	4416.584	29.0002	0.00017
32.5001	4721.263	32.4999	-0.00022

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

