



Sea-Bird Scientific
13431 NE 20th Street
Bellevue, WA 98005
USA

+1 425-643-9866
seabird@seabird.com
www.seabird.com

SENSOR SERIAL NUMBER: 3114
CALIBRATION DATE: 05-May-19

SBE 16 TEMPERATURE CALIBRATION DATA
ITS-90 TEMPERATURE SCALE

COEFFICIENTS:

g = 4.21115890e-003
h = 5.90700568e-004
i = 5.75182586e-007
j = -2.53771497e-006
f0 = 1000.0

BATH TEMP (° C)	INSTRUMENT OUTPUT (Hz)	INST TEMP (° C)	RESIDUAL (° C)
1.0000	2608.205	0.9998	-0.00021
4.5000	2822.678	4.5004	0.00036
15.0000	3540.427	15.0000	0.00002
18.5000	3805.708	18.4996	-0.00040
23.9999	4250.357	23.9998	-0.00014
29.0000	4685.129	29.0009	0.00089
32.5000	5007.129	32.4995	-0.00052

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

