



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

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

SENSOR SERIAL NUMBER: 3115
CALIBRATION DATE: 18-Apr-24

SBE 16 TEMPERATURE CALIBRATION DATA
ITS-90 TEMPERATURE SCALE

COEFFICIENTS:

g = 4.18030627e-003
h = 5.98282358e-004
i = 6.51290093e-006
j = -1.58343201e-006
f0 = 1000.0

BATH TEMP (° C)	INSTRUMENT OUTPUT (Hz)	INST TEMP (° C)	RESIDUAL (° C)
1.0000	2462.316	0.9999	-0.00011
4.5000	2664.825	4.5002	0.00018
15.0000	3343.661	15.0001	0.00006
18.5000	3594.918	18.4997	-0.00031
24.0000	4016.444	24.0000	0.00004
29.0000	4428.924	29.0004	0.00037
32.5001	4734.768	32.4999	-0.00023

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

