



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

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

SENSOR SERIAL NUMBER: 4287
CALIBRATION DATE: 06-Apr-23

SBE 16plus TEMPERATURE CALIBRATION DATA
ITS-90 TEMPERATURE SCALE

COEFFICIENTS:

a0 = 1.267492e-003
a1 = 2.577207e-004
a2 = 5.676306e-007
a3 = 1.254392e-007

BATH TEMP (° C)	INSTRUMENT OUTPUT (counts)	INST TEMP (° C)	RESIDUAL (° C)
0.9999	623708.700	0.9999	0.0000
4.5000	553869.400	4.5000	-0.0000
15.0000	380496.100	14.9999	-0.0001
18.5000	333933.455	18.5002	0.0002
24.0000	270729.200	24.0000	-0.0000
29.0000	222619.700	28.9998	-0.0002
32.5000	193559.400	32.5001	0.0001

n = Instrument Output (counts)

$MV = (n - 524288) / 1.6e+007$

$R = (MV * 2.900e+009 + 1.024e+008) / (2.048e+004 - MV * 2.0e+005)$

Temperature ITS-90 (°C) = $1 / \{a0 + a1[\ln(R)] + a2[\ln^2(R)] + a3[\ln^3(R)]\} - 273.15$

Residual (°C) = instrument temperature - bath temperature

