



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

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

SENSOR SERIAL NUMBER: 6627
CALIBRATION DATE: 12-Jan-25

SBE 16plus V2 TEMPERATURE CALIBRATION DATA
ITS-90 TEMPERATURE SCALE

COEFFICIENTS:

a0 = 1.282061e-003
a1 = 2.579546e-004
a2 = 3.918750e-008
a3 = 1.366799e-007

BATH TEMP (° C)	INSTRUMENT OUTPUT (counts)	INST TEMP (° C)	RESIDUAL (° C)
1.0000	649996.900	1.0000	0.0000
4.5000	577075.091	4.5000	-0.0000
15.0000	395559.700	15.0000	-0.0000
18.5000	346767.400	18.5001	0.0001
24.0000	280562.545	23.9999	-0.0001
29.0000	230228.600	29.0000	0.0000
32.5000	199873.200	32.5000	-0.0000

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

