



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

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

SENSOR SERIAL NUMBER: 6629
CALIBRATION DATE: 31-Mar-23

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

COEFFICIENTS:

a0 = 1.228668e-003
a1 = 2.563314e-004
a2 = 1.821768e-007
a3 = 1.279801e-007

BATH TEMP (° C)	INSTRUMENT OUTPUT (counts)	INST TEMP (° C)	RESIDUAL (° C)
1.0000	756085.300	1.0000	-0.0000
4.5000	677390.100	4.5000	0.0000
15.0000	476274.800	14.9999	-0.0001
18.4999	420890.182	18.5001	0.0002
24.0000	344811.700	24.0000	-0.0000
29.0000	286239.909	29.0000	-0.0000
32.5000	250602.400	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[ln²(R)] + a3[ln³(R)]} - 273.15

Residual (°C) = instrument temperature - bath temperature

