



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

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

SENSOR SERIAL NUMBER: 6628
CALIBRATION DATE: 12-Jan-25

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

COEFFICIENTS:

a0 = 1.331231e-003
a1 = 2.514885e-004
a2 = 8.407631e-007
a3 = 1.069406e-007

BATH TEMP (° C)	INSTRUMENT OUTPUT (counts)	INST TEMP (° C)	RESIDUAL (° C)
1.0000	595663.500	1.0001	0.0001
4.5000	526303.500	4.4999	-0.0001
15.0000	355908.200	15.0001	0.0001
18.5000	310650.800	18.5000	0.0000
24.0000	249599.727	23.9999	-0.0001
29.0000	203459.600	29.0000	0.0000
32.5000	175747.700	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

