



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

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

SENSOR SERIAL NUMBER: 4426
CALIBRATION DATE: 24-May-22

SBE 16plus TEMPERATURE CALIBRATION DATA
ITS-90 TEMPERATURE SCALE

COEFFICIENTS:

a0 = 1.233161e-003
a1 = 2.645706e-004
a2 = -4.653949e-007
a3 = 1.655124e-007

BATH TEMP (° C)	INSTRUMENT OUTPUT (counts)	INST TEMP (° C)	RESIDUAL (° C)
1.0000	666359.800	1.0001	0.0001
4.5000	593574.900	4.4998	-0.0002
15.0000	411124.300	15.0002	0.0002
18.5000	361725.400	18.5000	0.0000
24.0000	294397.500	23.9998	-0.0002
29.0000	242951.300	29.0001	0.0001
32.5000	211805.200	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

