



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

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

SENSOR SERIAL NUMBER: 6902
CALIBRATION DATE: 20-Dec-17

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

COEFFICIENTS:

a0 = 1.244523e-003
a1 = 2.733836e-004
a2 = -7.615225e-007
a3 = 1.656730e-007

BATH TEMP (° C)	INSTRUMENT OUTPUT (counts)	INST TEMP (° C)	RESIDUAL (° C)
1.0000	564133.300	1.0000	0.0000
4.5000	498528.500	4.4999	-0.0001
15.0000	337971.100	15.0000	0.0000
18.5000	295400.700	18.5000	-0.0000
24.0000	237961.100	24.0000	-0.0000
29.0000	194506.600	28.9999	-0.0001
32.5000	168367.700	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

