

Sea-Bird Electronics, Inc.

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SENSOR SERIAL NUMBER: 7297
CALIBRATION DATE: 21-Nov-15

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

COEFFICIENTS:

a0 = 1.252217e-003
a1 = 2.735735e-004
a2 = -9.580155e-007
a3 = 1.743907e-007

BATH TEMP (° C)	INSTRUMENT OUTPUT (counts)	INST TEMP (° C)	RESIDUAL (° C)
0.9999	563653.800	0.9999	-0.0000
4.5000	497807.000	4.5001	0.0001
15.0000	336804.400	15.0000	-0.0000
18.5000	294158.600	18.5000	0.0000
23.9999	236662.400	23.9998	-0.0001
29.0000	193198.600	29.0002	0.0002
32.5000	167079.273	32.4999	-0.0001

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

