

Sea-Bird Electronics, Inc.

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SENSOR SERIAL NUMBER: 7020
CALIBRATION DATE: 19-Nov-15

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

COEFFICIENTS:

a0 = 1.244439e-003
a1 = 2.771546e-004
a2 = -1.330957e-006
a3 = 1.900665e-007

BATH TEMP (° C)	INSTRUMENT OUTPUT (counts)	INST TEMP (° C)	RESIDUAL (° C)
0.9999	555676.200	0.9999	-0.0000
4.5000	490520.600	4.5000	0.0000
15.0000	331449.000	15.0000	0.0000
18.5000	289370.400	18.5000	-0.0000
24.0000	232667.600	24.0000	0.0000
29.0000	189832.200	29.0000	-0.0000
32.5001	164092.600	32.5001	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

