

Sea-Bird Electronics, Inc.

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SENSOR SERIAL NUMBER: 7021
CALIBRATION DATE: 25-Nov-15

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

COEFFICIENTS:

a0 = 1.243574e-003
a1 = 2.778170e-004
a2 = -1.552670e-006
a3 = 1.993162e-007

BATH TEMP (° C)	INSTRUMENT OUTPUT (counts)	INST TEMP (° C)	RESIDUAL (° C)
1.0000	564066.200	1.0000	-0.0000
4.5000	498093.900	4.5001	0.0001
15.0000	336795.900	15.0001	0.0001
18.5000	294086.600	18.4998	-0.0002
24.0000	236507.100	24.0001	0.0001
29.0000	193001.900	29.0001	0.0001
32.5000	166860.500	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) = $1 / \{a_0 + a_1[\ln(R)] + a_2[\ln^2(R)] + a_3[\ln^3(R)]\} - 273.15$

Residual (°C) = instrument temperature - bath temperature

