

Sea-Bird Electronics, Inc.

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SENSOR SERIAL NUMBER: 6592
CALIBRATION DATE: 22-Nov-15

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

COEFFICIENTS:

a0 = 1.283527e-003
a1 = 2.580310e-004
a2 = 5.631860e-009
a3 = 1.386881e-007

BATH TEMP (° C)	INSTRUMENT OUTPUT (counts)	INST TEMP (° C)	RESIDUAL (° C)
1.0000	648514.200	1.0001	0.0001
4.5000	575670.800	4.4999	-0.0001
15.0000	394404.700	15.0001	0.0001
18.5000	345699.364	18.5001	0.0001
24.0000	279623.909	23.9999	-0.0001
29.0000	229398.909	29.0000	-0.0000
32.5000	199112.727	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) = $1 / \{a_0 + a_1[\ln(R)] + a_2[\ln^2(R)] + a_3[\ln^3(R)]\} - 273.15$

Residual (°C) = instrument temperature - bath temperature

