

Sea-Bird Electronics, Inc.

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SENSOR SERIAL NUMBER: 6592
CALIBRATION DATE: 07-Feb-14

SBE16plusV2 TEMPERATURE CALIBRATION DATA
ITS-90 TEMPERATURE SCALE

ITS-90 COEFFICIENTS

a0 = 1.282045e-003
a1 = 2.585935e-004
a2 = -6.545927e-008
a3 = 1.416722e-007

BATH TEMP (ITS-90)	INSTRUMENT OUTPUT(n)	INST TEMP (ITS-90)	RESIDUAL (ITS-90)
1.0000	648521.400	1.0000	0.0000
4.5000	575676.400	4.4999	-0.0001
15.0000	394410.200	15.0001	0.0001
18.5000	345705.364	18.5000	-0.0000
24.0000	279626.700	23.9999	-0.0001
29.0000	229401.500	29.0000	0.0000
32.5000	199115.600	32.5000	0.0000

$$MV = (n - 524288) / 1.6e+007$$

$$R = (MV * 2.900e+009 + 1.024e+008) / (2.048e+004 - MV * 2.0e+005)$$

$$\text{Temperature ITS-90} = 1 / \{ a_0 + a_1 [\ln(R)] + a_2 [\ln^2(R)] + a_3 [\ln^3(R)] \} - 273.15 \text{ (}^\circ\text{C)}$$

$$\text{Residual} = \text{instrument temperature} - \text{bath temperature}$$

