

# Sea-Bird Electronics, Inc.

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SENSOR SERIAL NUMBER: 6592  
CALIBRATION DATE: 11-Jan-12

SBE16plus TEMPERATURE CALIBRATION DATA  
ITS-90 TEMPERATURE SCALE

## ITS-90 COEFFICIENTS

a0 = 1.280548e-003

a1 = 2.590922e-004

a2 = -1.208418e-007

a3 = 1.437247e-007

BATH TEMP (ITS-90)	INSTRUMENT OUTPUT(n)	INST TEMP (ITS-90)	RESIDUAL (ITS-90)
0.9999	648519.700	0.9999	0.0000
4.5000	575672.100	4.5000	-0.0000
15.0000	394409.200	15.0000	0.0000
18.5000	345704.800	18.5000	0.0000
24.0000	279628.700	23.9999	-0.0001
29.0000	229403.600	29.0001	0.0001
32.5001	199119.273	32.5001	-0.0000

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

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

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

Residual = instrument temperature - bath temperature

