## Sea-Bird Electronics, Inc.

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SENSOR SERIAL NUMBER: 6627 CALIBRATION DATE: 04-Dec-15 SBE 16plus V2 TEMPERATURE CALIBRATION DATA

ITS-90 TEMPERATURE SCALE

## **COEFFICIENTS:**

a0 = 1.284597e-003 a1 = 2.570650e-004 a2 = 1.458183e-007 a3 = 1.323346e-007

BATH TEMP	INSTRUMENT	INST TEMP	RESIDUAL
(° C)	OUTPUT (counts)	(° C)	(° C)
1.0000	649990.333	1.0001	0.0001
4.5000	577067.000	4.4999	-0.0001
14.9999	395541.000	15.0000	0.0001
18.5000	346748.091	18.5001	0.0001
23.9999	280543.417	23.9997	-0.0002
29.0000	230207.091	29.0000	0.0000
32.5000	199851.167	32.5000	0.0000

n = Instrument Output (counts)

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

R = (MV \* 2.900e + 0.09 + 1.024e + 0.08) / (2.048e + 0.04 - MV \* 2.0e + 0.05)

Temperature ITS-90 (°C) =  $1/{a0 + a1[ln(R)] + a2[ln^2(R)] + a3[ln^3(R)]} - 273.15$ 

Residual (°C) = instrument temperature - bath temperature

