

# Sea-Bird Electronics, Inc.

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SENSOR SERIAL NUMBER: 6629  
CALIBRATION DATE: 04-Mar-15

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

## COEFFICIENTS:

a0 = 1.224069e-003  
a1 = 2.580257e-004  
a2 = -2.404076e-008  
a3 = 1.362874e-007

BATH TEMP (ITS-90)	INSTRUMENT OUTPUT	INST TEMP (ITS-90)	RESIDUAL (ITS-90)
0.9999	756084.400	0.9999	0.0000
4.4999	677392.091	4.4998	-0.0001
15.0000	476265.600	15.0000	-0.0000
18.4999	420882.200	18.5000	0.0001
23.9999	344801.600	23.9999	-0.0000
29.0000	286230.000	28.9999	-0.0001
32.5000	250590.800	32.5001	0.0001

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

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

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

Residual = instrument temperature - bath temperature

