

Sea-Bird Electronics, Inc.

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SENSOR SERIAL NUMBER: 6627
CALIBRATION DATE: 22-Nov-15

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

COEFFICIENTS:

a0 = 1.285487e-003
a1 = 2.568829e-004
a2 = 1.495385e-007
a3 = 1.329376e-007

BATH TEMP (° C)	INSTRUMENT OUTPUT (counts)	INST TEMP (° C)	RESIDUAL (° C)
1.0000	650012.600	1.0001	0.0001
4.5000	577092.700	4.4999	-0.0001
15.0000	395565.400	15.0001	0.0001
18.4999	346772.200	18.5000	0.0001
23.9999	280559.500	23.9999	-0.0000
29.0000	230221.200	28.9999	-0.0001
32.5000	199859.500	32.5001	0.0001

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 / {a0 + a1[ln(R)] + a2[ln²(R)] + a3[ln³(R)]} - 273.15

Residual (°C) = instrument temperature - bath temperature

