

Sea-Bird Electronics, Inc.

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SENSOR SERIAL NUMBER: 4607
CALIBRATION DATE: 25-Nov-15

SBE 16plus TEMPERATURE CALIBRATION DATA
ITS-90 TEMPERATURE SCALE

COEFFICIENTS:

a0 = 1.133589e-003
a1 = 2.773673e-004
a2 = -1.303783e-006
a3 = 1.925772e-007

BATH TEMP (° C)	INSTRUMENT OUTPUT (counts)	INST TEMP (° C)	RESIDUAL (° C)
1.0000	720717.700	1.0001	0.0001
4.5000	646177.100	4.4999	-0.0001
15.0000	456421.100	15.0002	0.0002
18.5000	404252.800	18.4999	-0.0001
24.0000	332532.100	24.0000	-0.0000
29.0000	277218.400	29.0000	-0.0000
32.5000	243489.500	32.5000	0.0000

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

