

# Sea-Bird Electronics, Inc.

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SENSOR SERIAL NUMBER: 4426

CALIBRATION DATE: 07-Apr-17

SBE 16plus TEMPERATURE CALIBRATION DATA

ITS-90 TEMPERATURE SCALE

## COEFFICIENTS:

a0 = 1.244802e-003

a1 = 2.600875e-004

a2 = 1.080941e-007

a3 = 1.411452e-007

BATH TEMP (° C)	INSTRUMENT OUTPUT (counts)	INST TEMP (° C)	RESIDUAL (° C)
0.9999	666372.300	1.0000	0.0001
4.5000	593572.600	4.4998	-0.0002
15.0000	411115.600	15.0003	0.0003
18.5000	361721.800	18.4999	-0.0001
24.0000	294394.200	23.9999	-0.0001
29.0000	242952.200	29.0001	0.0001
32.5000	211807.400	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[ln<sup>2</sup>(R)] + a3[ln<sup>3</sup>(R)]} - 273.15

Residual (°C) = instrument temperature - bath temperature

