Sea-Bird Electronics, Inc.

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SENSOR SERIAL NUMBER: 7021 CALIBRATION DATE: 20-Nov-15 SBE 16plus V2 TEMPERATURE CALIBRATION DATA ITS-90 TEMPERATURE SCALE

CALIBITATION BATTE: 20 NOV 10

COEFFICIENTS:

a0 = 1.247327e-003 a1 = 2.763185e-004 a2 = -1.355093e-006 a3 = 1.906907e-007

BATH TEMP (° C)	INSTRUMENT OUTPUT (counts)	INST TEMP (° C)	RESIDUAL (° C)
1.0000	564077.500	1.0000	-0.0000
4.5000	498102.400	4.5001	0.0001
15.0000	336804.100	15.0000	-0.0000
18.5001	294090.400	18.5001	-0.0000
24.0000	236515.800	24.0000	0.0000
29.0000	193010.500	29.0000	0.0000
32.4999	166869.100	32.4999	-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 ($^{\circ}$ C) = instrument temperature - bath temperature

