Sea-Bird Electronics, Inc.

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SENSOR SERIAL NUMBER: 4425 CALIBRATION DATE: 07-Apr-17 SBE 16plus TEMPERATURE CALIBRATION DATA

ITS-90 TEMPERATURE SCALE

COEFFICIENTS:

a0 = 1.243141e-003 a1 = 2.588525e-004 a2 = 1.440152e-007 a3 = 1.378570e-007

BATH TEMP (° C)	INSTRUMENT OUTPUT (counts)	INST TEMP (° C)	RESIDUAL (° C)
0.9999	686180.400	1.0000	0.0001
4.5000	611971.700	4.4999	-0.0001
15.0000	425204.000	15.0003	0.0003
18.5000	374463.100	18.4998	-0.0002
24.0000	305182.600	24.0000	-0.0000
29.0000	252168.900	29.0001	0.0001
32.5000	220041.100	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) = $1/{a0 + a1[ln(R)] + a2[ln^2(R)] + a3[ln^3(R)]} - 273.15$

Residual ($^{\circ}$ C) = instrument temperature - bath temperature

