Sea-Bird Electronics, Inc.

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SENSOR SERIAL NUMBER: 4287 CALIBRATION DATE: 02-Feb-17 SBE 16plus TEMPERATURE CALIBRATION DATA

ITS-90 TEMPERATURE SCALE

COEFFICIENTS:

a0 = 1.272504e-003 a1 = 2.559303e-004 a2 = 7.815377e-007 a3 = 1.168753e-007

BATH TEMP	INSTRUMENT	INST TEMP	RESIDUAL
(° C)	OUTPUT (counts)	(° C)	(° C)
0.9999	623731.400	0.9999	0.0000
4.5000	553889.000	4.4999	-0.0001
15.0000	380502.700	15.0001	0.0001
18.5000	333943.700	18.5000	-0.0000
24.0000	270733.200	23.9999	-0.0001
29.0000	222617.500	29.0000	0.0000
32.5000	193557.500	32.5000	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

