Sea-Bird Electronics, Inc.

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SENSOR SERIAL NUMBER: 4139 CALIBRATION DATE: 20-Nov-15 SBE 16plus TEMPERATURE CALIBRATION DATA ITS-90 TEMPERATURE SCALE

COEFFICIENTS:

a0 = 1.278634e-003 a1 = 2.548519e-004 a2 = 6.742429e-007 a3 = 1.255846e-007

BATH TEMP (° C)	INSTRUMENT OUTPUT (counts)	INST TEMP (° C)	RESIDUAL (° C)
1.0000	632682.200	1.0000	-0.0000
4.5000	562074.182	4.5001	0.0001
15.0000	386463.100	14.9999	-0.0001
18.5001	339229.400	18.5002	0.0001
24.0000	275072.400	24.0000	-0.0000
29.0000	226212.091	29.0001	0.0001
32.4999	196697.500	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

