

SENSOR SERIAL NUMBER: 4426 SBE 16plus TEMPERATURE CALIBRATION DATA CALIBRATION DATE: 19-May-22 **ITS-90 TEMPERATURE SCALE**

COEFFICIENTS:

a0 = 1.246346e-0032.597154e-004 a2 = 1.296885e-007a3 = 1.412488e - 007

BATH TEMP (° C)	INSTRUMENT OUTPUT (counts)	INST TEMP (° C)	RESIDUAL (° C)
1.0000	666346.900	1.0001	0.0001
4.5000	593560.800	4.4997	-0.0003
15.0000	411114.100	15.0002	0.0002
18.5000	361717.000	18.5000	0.0000
23.9999	294391.300	23.9998	-0.0001
28.9999	242949.700	28.9997	-0.0002
32.5001	211796.900	32.5003	0.0002

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

