

SENSOR SERIAL NUMBER: 1805 SBE 37 TEMPERATURE CALIBRATION DATA CALIBRATION DATE: 27-Dec-24 **ITS-90 TEMPERATURE SCALE**

COEFFICIENTS:

a0 = -1.088949e - 004a1 = 3.112573e-004a2 = -4.905226e-006a3 = 2.119197e-007

BATH TEMP	INSTRUMENT	INST TEMP	RESIDUAL
(° C)	OUTPUT (counts)	(° C)	(° C)
1.0000	569197.7	0.9999	-0.0001
4.5000	486353.3	4.5002	0.0002
15.0000	309470.8	14.9998	-0.0002
18.5000	267855.0	18.5000	0.0000
24.0000	214764.3	24.0001	0.0001
29.0000	176775.6	29.0000	0.0000
32.5000	154777.4	32.4999	-0.0001

n = Instrument Output (counts)

Temperature ITS-90 (°C) = $1/{a0 + a1[ln(n)] + a2[ln^2(n)] + a3[ln^3(n)]} - 273.15$

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

