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SENSOR SERIAL NUMBER: 0817
CALIBRATION DATE: 18-Sep-24

SBE 37 TEMPERATURE CALIBRATION DATA
ITS-90 TEMPERATURE SCALE

COEFFICIENTS:

a0 = -2.548167e-004
a1 = 3.265450e-004
a2 = -5.962174e-006
a3 = 2.435563e-007

BATH TEMP (° C)	INSTRUMENT OUTPUT (counts)	INST TEMP (° C)	RESIDUAL (° C)
0.9999	685499.6	0.9999	0.0000
4.5000	587379.7	4.4999	-0.0001
14.9999	376710.1	14.9999	0.0000
18.4999	326860.2	18.5000	0.0001
24.0000	263055.3	23.9999	-0.0001
29.0000	217227.9	29.0000	-0.0000
32.5000	190612.7	32.5000	0.0000

n = Instrument Output (counts)

Temperature ITS-90 (°C) = $1 / \{a_0 + a_1[\ln(n)] + a_2[\ln^2(n)] + a_3[\ln^3(n)]\} - 273.15$

Residual (°C) = instrument temperature - bath temperature

