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SENSOR SERIAL NUMBER: 0819
CALIBRATION DATE: 19-Nov-23

SBE 37 TEMPERATURE CALIBRATION DATA
ITS-90 TEMPERATURE SCALE

COEFFICIENTS:

a0 = -3.030766e-004
a1 = 3.327689e-004
a2 = -6.230303e-006
a3 = 2.541689e-007

BATH TEMP (° C)	INSTRUMENT OUTPUT (counts)	INST TEMP (° C)	RESIDUAL (° C)
1.0000	657322.3	1.0000	0.0000
4.4999	564515.5	4.4998	-0.0001
14.9999	364401.1	15.0000	0.0001
18.5000	316835.1	18.5000	0.0000
24.0000	255795.4	23.9999	-0.0001
29.0000	211822.1	29.0000	-0.0000
32.5000	186222.6	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

