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SENSOR SERIAL NUMBER: 0819
CALIBRATION DATE: 01-Dec-23

SBE 37 TEMPERATURE CALIBRATION DATA
ITS-90 TEMPERATURE SCALE

COEFFICIENTS:

a0 = -3.242482e-004
a1 = 3.377445e-004
a2 = -6.619988e-006
a3 = 2.643418e-007

BATH TEMP (° C)	INSTRUMENT OUTPUT (counts)	INST TEMP (° C)	RESIDUAL (° C)
1.0000	657307.0	1.0000	0.0000
4.5000	564500.5	4.5000	-0.0000
15.0000	364393.2	15.0001	0.0001
18.5000	316831.5	18.4999	-0.0001
23.9999	255791.0	24.0000	0.0001
28.9999	211820.4	28.9999	-0.0000
32.4999	186221.8	32.4999	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

