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SENSOR SERIAL NUMBER: 0828
CALIBRATION DATE: 14-Nov-23

SBE 37 TEMPERATURE CALIBRATION DATA
ITS-90 TEMPERATURE SCALE

COEFFICIENTS:

a0 = -1.336022e-004
a1 = 3.154918e-004
a2 = -5.427014e-006
a3 = 2.367739e-007

BATH TEMP (° C)	INSTRUMENT OUTPUT (counts)	INST TEMP (° C)	RESIDUAL (° C)
1.0000	573793.8	0.9999	-0.0001
4.4999	491193.4	4.5001	0.0002
15.0000	314117.3	14.9998	-0.0002
18.4999	272283.7	18.4998	-0.0001
23.9999	218787.7	24.0004	0.0005
28.9999	180422.9	28.9995	-0.0004
32.5000	158155.6	32.5001	0.0001

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

