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SENSOR SERIAL NUMBER: 0385
CALIBRATION DATE: 12-Nov-23

SBE 37 TEMPERATURE CALIBRATION DATA
ITS-90 TEMPERATURE SCALE

COEFFICIENTS:

a0 = 9.932434e-005
a1 = 2.743906e-004
a2 = -2.976895e-006
a3 = 1.807615e-007

BATH TEMP (° C)	INSTRUMENT OUTPUT (counts)	INST TEMP (° C)	RESIDUAL (° C)
1.0000	597681.5	0.9999	-0.0001
4.5001	510169.2	4.5003	0.0002
15.0000	323431.7	14.9999	-0.0001
18.5000	279540.4	18.4999	-0.0001
24.0000	223588.1	24.0002	0.0002
29.0000	183599.8	29.0000	-0.0000
32.4998	160468.0	32.4998	-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

