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SENSOR SERIAL NUMBER: 3936
CALIBRATION DATE: 31-Aug-24

SBE 37 TEMPERATURE CALIBRATION DATA
ITS-90 TEMPERATURE SCALE

COEFFICIENTS:

a0 = -3.044201e-005
a1 = 2.823603e-004
a2 = -2.781756e-006
a3 = 1.670111e-007

BATH TEMP (° C)	INSTRUMENT OUTPUT (counts)	INST TEMP (° C)	RESIDUAL (° C)
1.0000	642712.1	1.0001	0.0001
4.5000	550522.0	4.4999	-0.0001
15.0000	352657.2	15.0001	0.0001
18.4999	305862.9	18.4999	-0.0000
24.0000	245976.4	24.0000	0.0000
29.0000	202980.5	28.9998	-0.0002
32.5001	178012.1	32.5002	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

