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SENSOR SERIAL NUMBER: 0409
CALIBRATION DATE: 20-Nov-20

SBE 37 TEMPERATURE CALIBRATION DATA
ITS-90 TEMPERATURE SCALE

COEFFICIENTS:

a0 = -3.436505e-005
a1 = 2.856830e-004
a2 = -3.051306e-006
a3 = 1.743897e-007

BATH TEMP (° C)	INSTRUMENT OUTPUT (counts)	INST TEMP (° C)	RESIDUAL (° C)
1.0000	621567.5	1.0001	0.0001
4.5000	532358.5	4.4998	-0.0002
15.0000	340920.5	15.0001	0.0001
18.5000	295651.3	18.5002	0.0002
24.0000	237734.0	23.9998	-0.0002
29.0000	196152.1	28.9999	-0.0001
32.5000	172010.3	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

