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SENSOR SERIAL NUMBER: 0200
CALIBRATION DATE: 08-Dec-22

SBE 38 TEMPERATURE CALIBRATION DATA
ITS-90 TEMPERATURE SCALE

COEFFICIENTS:

a0 = -7.631119e-005
a1 = 2.960383e-004
a2 = -3.859176e-006
a3 = 1.996687e-007

BATH TEMP (° C)	INSTRUMENT OUTPUT (counts)	INST TEMP (° C)	RESIDUAL (° C)
-1.5000	666932.3	-1.5000	0.0000
1.0000	596283.7	1.0000	-0.0000
4.5000	511209.8	4.5000	-0.0000
8.0000	439684.3	8.0000	-0.0000
11.5000	379350.0	11.5000	0.0000
15.0000	328290.9	15.0001	0.0001
18.5000	284945.9	18.5000	0.0000
22.0000	248035.5	22.0000	-0.0000
25.5000	216510.6	25.5000	-0.0000
29.0000	189507.1	28.9999	-0.0001
32.5000	166310.1	32.5001	0.0001

n = Instrument Output (counts)

Temperature ITS-90 (°C) = $1/\{a0 + a1[\ln(n)] + a2[\ln^2(n)] + a3[\ln^3(n)]\} - 273.15$

Residual (°C) = instrument temperature - bath temperature

