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SENSOR SERIAL NUMBER: 1424
CALIBRATION DATE: 24-Apr-24

SBE 39 TEMPERATURE CALIBRATION DATA
ITS-90 TEMPERATURE SCALE

COEFFICIENTS:

a0 = -1.204439e-005
a1 = 2.742125e-004
a2 = -2.298497e-006
a3 = 1.521575e-007

BATH TEMP (° C)	INSTRUMENT OUTPUT (counts)	INST TEMP (° C)	RESIDUAL (° C)
-1.5000	823586.8	-1.5000	0.0000
1.0000	735243.9	1.0000	-0.0000
4.5000	629063.7	4.5000	-0.0000
8.0000	539982.8	8.0000	-0.0000
11.5000	464992.4	11.5000	0.0000
15.0000	401657.0	15.0000	0.0000
18.5000	347991.3	18.5000	0.0000
22.0000	302376.8	22.0000	0.0000
25.5000	263487.6	25.5000	-0.0000
29.0000	230233.7	28.9999	-0.0001
32.5000	201715.1	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

