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SENSOR SERIAL NUMBER: 0631
CALIBRATION DATE: 01-Aug-25

SBE 38 TEMPERATURE CALIBRATION DATA
ITS-90 TEMPERATURE SCALE

COEFFICIENTS:

a0 = 3.985799e-05
a1 = 2.724972e-04
a2 = -2.336210e-06
a3 = 1.482785e-07

BATH TEMP (° C)	INSTRUMENT OUTPUT (counts)	INST TEMP (° C)	RESIDUAL (° C)
-1.5000	791056.1	-1.5000	0.0000
1.0000	704776.8	1.0000	-0.0000
4.5000	601326.9	4.5000	-0.0000
8.0000	514783.7	8.0000	-0.0000
11.5000	442129.3	11.5000	0.0000
15.0000	380930.7	15.0001	0.0001
18.5000	329213.2	18.5000	-0.0000
22.0000	285365.8	22.0000	-0.0000
25.5000	248076.1	25.5000	-0.0000
29.0000	216267.2	29.0000	-0.0000
32.5000	189053.3	32.5000	0.0000

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

