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SENSOR SERIAL NUMBER: 0733  
 CALIBRATION DATE: 26-Nov-24

SBE 38 TEMPERATURE CALIBRATION DATA  
 ITS-90 TEMPERATURE SCALE

COEFFICIENTS:

a0 = 1.851295e-005  
 a1 = 2.757143e-004  
 a2 = -2.349515e-006  
 a3 = 1.492590e-007

BATH TEMP (° C)	INSTRUMENT OUTPUT (counts)	INST TEMP (° C)	RESIDUAL (° C)
-1.5000	733193.3	-1.5000	0.0000
1.0000	653953.2	1.0000	-0.0000
4.5000	558827.9	4.5000	-0.0000
8.0000	479132.4	8.0000	-0.0000
11.5000	412131.0	11.5000	0.0000
15.0000	355613.8	15.0000	0.0000
18.5000	307783.5	18.5000	0.0000
22.0000	267176.7	22.0001	0.0001
25.5000	232596.6	25.5000	-0.0000
29.0001	203058.5	29.0000	-0.0001
32.5000	177753.4	32.5001	0.0001

n = Instrument Output (counts)

$$\text{Temperature ITS-90 (°C)} = 1 / \{ a_0 + a_1[\ln(n)] + a_2[\ln^2(n)] + a_3[\ln^3(n)] \} - 273.15$$

Residual (°C) = instrument temperature - bath temperature

