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SENSOR SERIAL NUMBER: 0473  
 CALIBRATION DATE: 16-Jun-21

SBE 38 TEMPERATURE CALIBRATION DATA  
 ITS-90 TEMPERATURE SCALE

COEFFICIENTS:

a0 = 6.137387e-005  
 a1 = 2.691889e-004  
 a2 = -2.108361e-006  
 a3 = 1.420453e-007

BATH TEMP (° C)	INSTRUMENT OUTPUT (counts)	INST TEMP (° C)	RESIDUAL (° C)
-1.5000	782934.7	-1.5000	0.0000
1.0000	697363.3	0.9999	-0.0001
4.5000	594792.6	4.5000	0.0000
8.0000	509016.9	8.0000	-0.0000
11.5000	437031.6	11.5000	0.0000
15.0000	376417.2	15.0000	0.0000
18.5000	325208.2	18.5000	0.0000
22.0000	281807.2	22.0000	-0.0000
25.5000	244907.4	25.5000	-0.0000
29.0000	213441.4	28.9999	-0.0001
32.5000	186528.2	32.5000	0.0000

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

