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SENSOR SERIAL NUMBER: 0473
CALIBRATION DATE: 28-Aug-24

SBE 37 TEMPERATURE CALIBRATION DATA
ITS-90 TEMPERATURE SCALE

COEFFICIENTS:

a0 = -1.041613e-005
a1 = 2.725743e-004
a2 = -2.232518e-006
a3 = 1.480125e-007

BATH TEMP (° C)	INSTRUMENT OUTPUT (counts)	INST TEMP (° C)	RESIDUAL (° C)
1.0000	783548.6	1.0000	0.0000
4.5000	669810.1	4.5000	-0.0000
15.0000	426616.6	15.0000	0.0000
18.4999	369328.8	18.4999	0.0000
24.0000	296183.9	24.0000	-0.0000
29.0000	243804.3	29.0000	-0.0000
32.5002	213453.1	32.5002	0.0000

n = Instrument Output (counts)

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

