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SENSOR SERIAL NUMBER: 0813
CALIBRATION DATE: 28-Aug-24

SBE 37 TEMPERATURE CALIBRATION DATA
ITS-90 TEMPERATURE SCALE

COEFFICIENTS:

a0 = -3.852428e-004
a1 = 3.493020e-004
a2 = -7.498423e-006
a3 = 2.883912e-007

BATH TEMP (° C)	INSTRUMENT OUTPUT (counts)	INST TEMP (° C)	RESIDUAL (° C)
1.0000	670411.0	1.0000	-0.0000
4.5000	576075.1	4.5000	0.0000
15.0000	372449.7	14.9999	-0.0001
18.4999	323991.6	18.5000	0.0001
24.0000	261765.5	24.0000	-0.0000
29.0000	216906.3	29.0001	0.0001
32.5002	190776.7	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

