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SENSOR SERIAL NUMBER: 0827
CALIBRATION DATE: 11-Sep-24

SBE 37 TEMPERATURE CALIBRATION DATA
ITS-90 TEMPERATURE SCALE

COEFFICIENTS:

a0 = -2.034261e-004
a1 = 3.243122e-004
a2 = -5.877243e-006
a3 = 2.454177e-007

BATH TEMP (° C)	INSTRUMENT OUTPUT (counts)	INST TEMP (° C)	RESIDUAL (° C)
0.9999	597115.8	0.9999	-0.0000
4.5000	511630.8	4.5000	0.0000
15.0000	328090.5	15.0000	-0.0000
18.5000	284660.1	18.4999	-0.0001
24.0000	229067.5	24.0002	0.0002
29.0001	189143.6	29.0000	-0.0001
32.5000	165956.4	32.5000	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

