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SENSOR SERIAL NUMBER: 0827
CALIBRATION DATE: 01-Oct-22

SBE 37 TEMPERATURE CALIBRATION DATA
ITS-90 TEMPERATURE SCALE

COEFFICIENTS:

a0 = -2.004761e-004
a1 = 3.234877e-004
a2 = -5.802669e-006
a3 = 2.432318e-007

BATH TEMP (° C)	INSTRUMENT OUTPUT (counts)	INST TEMP (° C)	RESIDUAL (° C)
1.0000	597047.5	1.0000	0.0000
4.5000	511576.6	4.5000	-0.0000
15.0000	328058.6	15.0000	-0.0000
18.5000	284632.3	18.5001	0.0001
24.0000	229050.3	24.0000	0.0000
29.0000	189131.1	28.9999	-0.0001
32.5000	165946.4	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

