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SENSOR SERIAL NUMBER: 0825
CALIBRATION DATE: 29-Oct-23

SBE 37 TEMPERATURE CALIBRATION DATA
ITS-90 TEMPERATURE SCALE

COEFFICIENTS:

a0 = -2.560510e-005
a1 = 2.802144e-004
a2 = -2.826006e-006
a3 = 1.639129e-007

BATH TEMP (° C)	INSTRUMENT OUTPUT (counts)	INST TEMP (° C)	RESIDUAL (° C)
1.0000	734654.3	1.0000	0.0000
4.5000	627952.8	4.5000	-0.0000
15.0000	399840.3	15.0000	0.0000
18.4999	346115.3	18.4999	0.0000
24.0000	277528.9	24.0000	-0.0000
29.0000	228421.5	29.0000	-0.0000
32.5000	199971.3	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

