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SENSOR SERIAL NUMBER: 0825
CALIBRATION DATE: 08-Sep-21

SBE 37 TEMPERATURE CALIBRATION DATA
ITS-90 TEMPERATURE SCALE

COEFFICIENTS:

a0 = -1.748614e-005
a1 = 2.785667e-004
a2 = -2.716784e-006
a3 = 1.615602e-007

BATH TEMP (° C)	INSTRUMENT OUTPUT (counts)	INST TEMP (° C)	RESIDUAL (° C)
1.0000	734675.6	1.0000	0.0000
4.4999	627977.4	4.4999	-0.0000
15.0000	399857.8	15.0000	-0.0000
18.4999	346127.0	18.5000	0.0001
23.9999	277538.5	23.9998	-0.0001
29.0000	228423.5	29.0001	0.0001
32.5001	199970.3	32.5001	-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

