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SENSOR SERIAL NUMBER: 0417
CALIBRATION DATE: 01-Dec-20

SBE 37 TEMPERATURE CALIBRATION DATA
ITS-90 TEMPERATURE SCALE

COEFFICIENTS:

a0 = -8.905277e-005
a1 = 2.980286e-004
a2 = -4.199419e-006
a3 = 2.006131e-007

BATH TEMP (° C)	INSTRUMENT OUTPUT (counts)	INST TEMP (° C)	RESIDUAL (° C)
0.9999	693310.8	0.9998	-0.0001
4.5000	592710.0	4.5002	0.0002
15.0000	377585.8	14.9998	-0.0002
18.5000	326895.0	18.5000	0.0000
24.0000	262177.7	24.0001	0.0001
29.0000	215832.6	29.0000	0.0000
32.5001	188979.5	32.5000	-0.0001

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

