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SENSOR SERIAL NUMBER: 0416
CALIBRATION DATE: 10-Sep-21

SBE 37 TEMPERATURE CALIBRATION DATA
ITS-90 TEMPERATURE SCALE

COEFFICIENTS:

a0 = -2.479167e-004
a1 = 3.261000e-004
a2 = -5.818471e-006
a3 = 2.413166e-007

BATH TEMP (° C)	INSTRUMENT OUTPUT (counts)	INST TEMP (° C)	RESIDUAL (° C)
1.0000	638251.8	1.0001	0.0001
4.5000	547367.9	4.4998	-0.0002
15.0000	351918.0	15.0001	0.0001
18.5000	305594.7	18.5001	0.0001
24.0000	246245.6	24.0000	-0.0000
29.0000	203571.7	28.9998	-0.0002
32.5000	178761.6	32.5002	0.0002

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

