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SENSOR SERIAL NUMBER: 0416
CALIBRATION DATE: 23-Dec-17

SBE 37 TEMPERATURE CALIBRATION DATA
ITS-90 TEMPERATURE SCALE

COEFFICIENTS:

a0 = -2.098632e-004
a1 = 3.167370e-004
a2 = -5.053143e-006
a3 = 2.205360e-007

BATH TEMP (° C)	INSTRUMENT OUTPUT (counts)	INST TEMP (° C)	RESIDUAL (° C)
1.0000	638225.8	1.0001	0.0001
4.5000	547333.4	4.4999	-0.0001
15.0000	351897.7	15.0000	0.0000
18.5000	305579.0	18.5001	0.0001
24.0000	246238.4	23.9999	-0.0001
29.0000	203568.9	28.9999	-0.0001
32.5000	178762.9	32.5001	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

