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SENSOR SERIAL NUMBER: 2023
CALIBRATION DATE: 05-Apr-18

SBE 37 TEMPERATURE CALIBRATION DATA
ITS-90 TEMPERATURE SCALE

COEFFICIENTS:

a0 = -3.513292e-005
a1 = 2.786679e-004
a2 = -2.751335e-006
a3 = 1.655959e-007

BATH TEMP (° C)	INSTRUMENT OUTPUT (counts)	INST TEMP (° C)	RESIDUAL (° C)
0.9999	766822.4	0.9999	0.0000
4.4999	656045.2	4.4999	-0.0000
15.0000	418774.6	15.0000	0.0000
18.5000	362781.4	18.5000	0.0000
24.0000	291224.4	24.0000	-0.0000
29.0000	239925.0	29.0000	0.0000
32.5000	210177.0	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

