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SENSOR SERIAL NUMBER: 0258
CALIBRATION DATE: 09-Jan-18

SBE 38 TEMPERATURE CALIBRATION DATA
ITS-90 TEMPERATURE SCALE

COEFFICIENTS:

a0 = -2.327065e-004
a1 = 3.083148e-004
a2 = -4.522986e-006
a3 = 2.061805e-007

BATH TEMP (° C)	INSTRUMENT OUTPUT (counts)	INST TEMP (° C)	RESIDUAL (° C)
-1.5000	917248.0	-1.4999	0.0001
1.0000	820231.3	0.9999	-0.0001
4.5000	703397.8	4.4999	-0.0001
8.0000	605164.8	8.0000	0.0000
11.5000	522295.6	11.5001	0.0001
15.0001	452157.8	15.0001	0.0000
18.5000	392608.6	18.5000	0.0000
22.0001	341890.2	22.0001	-0.0000
25.5000	298564.8	25.5000	-0.0000
29.0001	261444.2	29.0001	-0.0000
32.5001	229549.9	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

