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SENSOR SERIAL NUMBER: 2023 CALIBRATION DATE: 06-May-21

SBE 37 TEMPERATURE CALIBRATION DATA ITS-90 TEMPERATURE SCALE

COEFFICIENTS:

a0 = -7.575073e-006 a1 = 2.723835e-004 a2 = -2.273895e-006 a3 = 1.535098e-007

BATH TEMP (° C)	INSTRUMENT OUTPUT (counts)	INST TEMP (° C)	RESIDUAL (° C)
0.9998	766835.7	0.9998	-0.0000
4.4999	656051.6	4.4999	0.0000
14.9999	418781.8	14.9999	0.0000
18.5000	362787.8	18.4999	-0.0001
23.9999	291228.3	23.9999	-0.0000
28.9999	239924.9	29.0000	0.0001
32.5000	210175.2	32.4999	-0.0001

n = Instrument Output (counts)

Temperature ITS-90 (°C) = $1/{a0 + a1[ln(n)] + a2[ln^2(n)] + a3[ln^3(n)]} - 273.15$

Residual ($^{\circ}$ C) = instrument temperature - bath temperature

