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SENSOR SERIAL NUMBER: 0021 CALIBRATION DATE: 13-Dec-20

SBE 48 TEMPERATURE CALIBRATION DATA ITS-90 TEMPERATURE SCALE

COEFFICIENTS:

a0 = -1.742489e-004 a1 = 3.030021e-004 a2 = -4.068236e-006 a3 = 1.960446e-007

BATH TEMP (° C)	INSTRUMENT OUTPUT (counts)	INST TEMP (° C)	RESIDUAL (° C)
1.0000	706579.9	1.0000	0.0000
4.5000	606024.5	4.4999	-0.0001
15.0000	389743.0	15.0000	-0.0000
18.5000	338463.1	18.5001	0.0001
24.0000	272755.2	23.9999	-0.0001
29.0000	225495.8	28.9999	-0.0001
32.5000	198017.4	32.5001	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

