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SENSOR SERIAL NUMBER: 0448
CALIBRATION DATE: 12-Oct-23

SBE 49 TEMPERATURE CALIBRATION DATA
ITS-90 TEMPERATURE SCALE

COEFFICIENTS:

a0 = 8.734354e-004
a1 = 2.835385e-004
a2 = -2.302289e-006
a3 = 2.056875e-007

BATH TEMP (° C)	INSTRUMENT OUTPUT (counts)	INST TEMP (° C)	RESIDUAL (° C)
1.0000	656748.763	1.0000	0.0000
4.5000	576694.678	4.5000	-0.0000
15.0000	376890.220	15.0001	0.0001
18.5000	322954.305	18.5001	0.0001
24.0001	249531.644	23.9995	-0.0006
29.0000	193452.102	29.0007	0.0007
32.5000	159521.729	32.4997	-0.0003

n = Instrument Output (counts)

MV = (n - 524288) / 1.6e+007

R = (MV * 2.295e+010 + 9.216e+008) / (6.144e+004 - MV * 5.3e+005)

Temperature ITS-90 (°C) = 1 / {a0 + a1[ln(R)] + a2[ln²(R)] + a3[ln³(R)]} - 273.15

Residual (°C) = instrument temperature - bath temperature

