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SENSOR SERIAL NUMBER: 4424
CALIBRATION DATE: 31-Mar-23

SBE 16plus TEMPERATURE CALIBRATION DATA
ITS-90 TEMPERATURE SCALE

COEFFICIENTS:

a0 = 1.241737e-003
a1 = 2.630638e-004
a2 = -1.665463e-007
a3 = 1.558713e-007

BATH TEMP (° C)	INSTRUMENT OUTPUT (counts)	INST TEMP (° C)	RESIDUAL (° C)
1.0000	647166.727	1.0000	0.0000
4.5000	575820.400	4.4999	-0.0001
15.0000	397694.700	15.0000	-0.0000
18.4999	349619.200	18.5001	0.0002
24.0000	284194.500	23.9998	-0.0002
29.0000	234270.200	29.0000	0.0000
32.5000	204068.400	32.5000	0.0000

n = Instrument Output (counts)

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

$R = (MV * 2.900e+009 + 1.024e+008) / (2.048e+004 - MV * 2.0e+005)$

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

Residual (°C) = instrument temperature - bath temperature

