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SENSOR SERIAL NUMBER: 7020
CALIBRATION DATE: 31-Mar-23

SBE 16plus V2 TEMPERATURE CALIBRATION DATA
ITS-90 TEMPERATURE SCALE

COEFFICIENTS:

a0 = 1.255798e-003
a1 = 2.729465e-004
a2 = -8.122717e-007
a3 = 1.688002e-007

BATH TEMP (° C)	INSTRUMENT OUTPUT (counts)	INST TEMP (° C)	RESIDUAL (° C)
1.0000	555667.900	1.0000	0.0000
4.5000	490514.900	4.5000	-0.0000
15.0000	331448.700	14.9999	-0.0001
18.4999	289370.000	18.5000	0.0001
24.0000	232667.400	24.0000	0.0000
29.0000	189830.300	28.9999	-0.0001
32.5000	164088.500	32.5001	0.0001

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[ln²(R)] + a3[ln³(R)]} - 273.15

Residual (°C) = instrument temperature - bath temperature

