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SENSOR SERIAL NUMBER: 6902
CALIBRATION DATE: 13-Jun-24

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

COEFFICIENTS:

a0 = 1.265687e-003
a1 = 2.655117e-004
a2 = 2.128372e-007
a3 = 1.255161e-007

BATH TEMP (° C)	INSTRUMENT OUTPUT (counts)	INST TEMP (° C)	RESIDUAL (° C)
0.9999	564158.800	0.9998	-0.0001
4.5000	498539.000	4.5002	0.0002
15.0000	337987.000	14.9999	-0.0001
18.5000	295415.000	18.4999	-0.0001
24.0000	237974.100	23.9998	-0.0002
29.0000	194506.900	29.0006	0.0006
32.5000	168371.200	32.4997	-0.0003

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

