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SENSOR SERIAL NUMBER: 6902
CALIBRATION DATE: 24-Jan-21

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

COEFFICIENTS:

a0 = 1.251621e-003
a1 = 2.708171e-004
a2 = -4.537416e-007
a3 = 1.534071e-007

BATH TEMP (° C)	INSTRUMENT OUTPUT (counts)	INST TEMP (° C)	RESIDUAL (° C)
1.0000	564152.700	1.0000	-0.0000
4.5000	498546.500	4.5000	-0.0000
15.0000	337988.600	15.0001	0.0001
18.5000	295418.000	18.4999	-0.0001
24.0000	237974.600	23.9999	-0.0001
29.0000	194514.100	29.0001	0.0001
32.5000	168374.200	32.4999	-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) = $1 / \{a0 + a1[\ln(R)] + a2[\ln^2(R)] + a3[\ln^3(R)]\} - 273.15$

Residual (°C) = instrument temperature - bath temperature

