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SENSOR SERIAL NUMBER: 50236  
CALIBRATION DATE: 14-Jan-21

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

COEFFICIENTS:

a0 = 1.254948e-003  
a1 = 2.738991e-004  
a2 = -1.001538e-006  
a3 = 1.777133e-007

BATH TEMP (° C)	INSTRUMENT OUTPUT (counts)	INST TEMP (° C)	RESIDUAL (° C)
1.0000	557113.600	1.0000	0.0000
4.5000	491789.400	4.5000	-0.0000
14.9999	332269.800	14.9999	0.0000
18.5000	290067.100	18.4999	-0.0001
23.9999	233197.100	24.0000	0.0001
29.0008	190229.375	29.0007	-0.0001
32.5000	164421.900	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

