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SENSOR SERIAL NUMBER: 6592
CALIBRATION DATE: 02-Apr-23

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

COEFFICIENTS:

a0 = 1.286111e-003
a1 = 2.571031e-004
a2 = 1.176818e-007
a3 = 1.341445e-007

BATH TEMP (° C)	INSTRUMENT OUTPUT (counts)	INST TEMP (° C)	RESIDUAL (° C)
1.0000	648513.600	1.0001	0.0001
4.5000	575668.600	4.4999	-0.0001
15.0000	394398.700	15.0000	0.0000
18.5000	345691.400	18.5002	0.0002
24.0000	279616.700	23.9998	-0.0002
28.9999	229391.600	28.9999	-0.0000
32.5000	199103.600	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) = $1 / \{a0 + a1[\ln(R)] + a2[\ln^2(R)] + a3[\ln^3(R)]\} - 273.15$

Residual (°C) = instrument temperature - bath temperature

