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SENSOR SERIAL NUMBER: 4285
CALIBRATION DATE: 13-Mar-18

SBE 16plus TEMPERATURE CALIBRATION DATA
ITS-90 TEMPERATURE SCALE

COEFFICIENTS:

a0 = 1.271294e-003
a1 = 2.568945e-004
a2 = 6.315429e-007
a3 = 1.231333e-007

BATH TEMP (° C)	INSTRUMENT OUTPUT (counts)	INST TEMP (° C)	RESIDUAL (° C)
0.9999	623830.200	0.9999	0.0000
4.5000	553928.000	4.5000	-0.0000
15.0000	380416.500	14.9999	-0.0001
18.5000	333825.000	18.5001	0.0001
24.0000	270584.000	24.0000	-0.0000
29.0000	222453.000	28.9999	-0.0001
32.5000	193385.200	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

