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SENSOR SERIAL NUMBER: 4287 CALIBRATION DATE: 02-Apr-23

SBE 16plus TEMPERATURE CALIBRATION DATA ITS-90 TEMPERATURE SCALE

COEFFICIENTS:

a0 = 1.270068e-003 a1 = 2.567958e-004 a2 = 6.804132e-007 a3 = 1.207786e-007

BATH TEMP	INSTRUMENT	INST TEMP	RESIDUAL
(° C)	OUTPUT (counts)	(° C)	(° C)
1.0000	623713.100	1.0001	0.0001
4.5000	553873.700	4.4999	-0.0001
15.0000	380487.200	15.0000	0.0000
18.5000	333925.300	18.5002	0.0002
24.0000	270720.800	23.9998	-0.0002
28.9999	222607.000	28.9999	-0.0000
32.5000	193547.300	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 ($^{\circ}$ C) = instrument temperature - bath temperature

