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SENSOR SERIAL NUMBER: 5287 CALIBRATION DATE: 02-May-23

SBE 39 TEMPERATURE CALIBRATION DATA ITS-90 TEMPERATURE SCALE

COEFFICIENTS:

a0 = -8.314431e-005 a1 = 3.080055e-004 a2 = -4.730325e-006 a3 = 2.057618e-007

BATH TEMP (° C)	INSTRUMENT OUTPUT (counts)	INST TEMP (° C)	RESIDUAL (° C)
` '	,	` '	` '
-1.5000	640782.2	-1.5000	0.0000
1.0000	571072.2	1.0000	-0.0000
4.5000	487476.5	4.5000	-0.0000
8.0000	417527.5	8.0000	-0.0000
11.5000	358791.6	11.5000	0.0000
15.0000	309305.1	15.0000	0.0000
18.5000	267473.6	18.5000	0.0000
22.0000	231999.6	22.0000	0.0000
25.5000	201822.6	25.4999	-0.0001
29.0000	176072.7	28.9999	-0.0001
32.5000	154034.9	32.5001	0.0001

n = Instrument Output (counts)

Temperature ITS-90 (°C) = $1/{a0 + a1[ln(n)] + a2[ln^2(n)] + a3[ln^3(n)]} - 273.15$

Residual (${}^{\circ}C$) = instrument temperature - bath temperature

