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SENSOR SERIAL NUMBER: 2341 CALIBRATION DATE: 09-Apr-23

SBE 37 TEMPERATURE CALIBRATION DATA ITS-90 TEMPERATURE SCALE

COEFFICIENTS:

a0 = -3.292319e-004 a1 = 3.625484e-004 a2 = -1.004267e-005 a3 = 3.739016e-007

BATH TEMP	INSTRUMENT	INST TEMP	RESIDUAL
(° C)	OUTPUT (counts)	(° C)	(° C)
0.9999	711885.9	0.9999	-0.0000
4.5000	609071.8	4.5000	0.0000
15.0000	388509.9	15.0000	0.0000
18.5000	336407.9	18.4999	-0.0001
24.0000	269810.7	24.0001	0.0001
29.0000	222077.8	29.0000	-0.0000
32.5000	194406.2	32.5000	0.0000

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

