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SENSOR SERIAL NUMBER: 9567  
CALIBRATION DATE: 29-Apr-25

# Slocum Payload CTD TEMPERATURE CALIBRATION DATA ITS-90 TEMPERATURE SCALE

## COEFFICIENTS:

a0 = -1.298909e-004  
a1 = 3.147272e-004  
a2 = -5.170664e-006  
a3 = 2.189557e-007

BATH TEMP (° C)	INSTRUMENT OUTPUT (counts)	INST TEMP (° C)	RESIDUAL (° C)
1.0000	579489.0	1.0000	0.0000
4.5000	495223.0	4.5000	-0.0000
14.9999	315235.9	14.9999	0.0000
18.5000	272879.9	18.5000	-0.0000
24.0000	218834.5	24.0000	-0.0000
29.0000	180155.4	29.0000	-0.0000
32.5000	157753.7	32.5000	0.0000

n = Instrument Output (counts)

Temperature ITS-90 (°C) =  $1 / \{a_0 + a_1[\ln(n)] + a_2[\ln^2(n)] + a_3[\ln^3(n)]\} - 273.15$

Residual (°C) = instrument temperature - bath temperature

