SENSOR SERIAL NUMBER: 2026 CALIBRATION DATE: 27-Jun-17

SBE 37 TEMPERATURE CALIBRATION DATA ITS-90 TEMPERATURE SCALE

COEFFICIENTS:

a0 = -8.090525e-008 a1 = 2.748911e-004 a2 = -2.531550e-006 a3 = 1.605106e-007

BATH TEMP (° C)	INSTRUMENT OUTPUT (counts)	INST TEMP (° C)	RESIDUAL (° C)
1.0000	737261.0	1.0000	-0.0000
4.4999	630441.9	4.4999	0.0000
15.0000	401848.6	15.0000	0.0000
18.5000	347954.8	18.5000	-0.0000
24.0000	279117.6	24.0000	0.0000
29.0000	229801.4	29.0000	0.0000
32.5000	201218.1	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

