SENSOR SERIAL NUMBER: 4078
CALIBRATION DATE: 03-Jan-25

SBE 37 PRESSURE CALIBRATION DATA
1450 psia S/N 7440

COEFFICIENTS:

PA0 =	1.751407e-001	PTCA0 =	-2.139655e+002
PA1 =	6.869205e-002	PTCA1 =	1.909755e-001
PA2 =	-7.527745e-009	PTCA2 =	-3.385706e-003
		PTCB0 =	2.481450e+001
		PTCB1 =	1.000000e-004
		PTCB2 =	0.000000e+000

PRESSURE SPAN CALIBRATION

PRESSURE (PSIA)	INSTRUMENT OUTPUT (counts)	TEMPERATURE (°C)	COMPUTED PRESSURE (PSIA)	RESIDUAL (%FSR)
14.36	-3.4	21.7	14.46	0.01
301.14	4169.6	21.7	300.95	-0.01
588.37	8360.0	21.7	588.36	-0.00
875.58	12552.6	21.7	875.66	0.01
1162.86	16748.2	21.7	1162.90	0.00
1450.08	20945.2	21.7	1449.97	-0.01
1163.11	16752.1	21.7	1163.17	0.00
875.83	12556.2	21.7	875.91	0.01
588.58	8363.7	21.7	588.61	0.00
301.16	4170.4	21.7	301.00	-0.01
14.36	-3.5	21.7	14.46	0.01

THERMAL CORRECTION

TEMP (°C)	INSTRUMENT OUTPUT (counts)
32.50	14.53
29.00	14.76
24.00	14.76
18.50	14.31
15.00	14.01
4.50	12.81
1.00	12.19

TEMPERATURE (°C)	SPAN
-5.00	24.81
35.00	24.82

$x = \text{instrument output} - PTCA0 - PTCA1 * t - PTCA2 * t^2$

$n = x * PTCB0 / (PTCB0 + PTCB1 * t + PTCB2 * t^2)$

$\text{pressure (PSIA)} = PA0 + PA1 * n + PA2 * n^2$

Residual (%FSR) = (computed pressure - true pressure) * 100 / Full Scale Range

Date, Offset (%FSR)
● 26-Apr-21   0.02
▲ 03-Jan-25   -0.00

POST CRUISE CALIBRATION