SENSOR SERIAL NUMBER: 2355
CALIBRATION DATE: 06-Jan-25

SBE 37 PRESSURE CALIBRATION DATA
1450 psia S/N 1422

COEFFICIENTS:

PA0 = 2.662325e-001
PA1 = 6.899968e-002
PA2 = -8.176184e-009

PTCA0 = -1.990876e+002
PTCA1 = 5.340987e-001
PTCA2 = -1.635212e-002
PTCB0 = 2.481675e+001
PTCB1 = -1.250000e-003
PTCB2 = 0.000000e+000

PRESSURE SPAN CALIBRATION

PRESSURE (PSIA)	INSTRUMENT OUTPUT (counts)	TEMPERATURE (°C)	COMPUTED PRESSURE (PSIA)	RESIDUAL (%FSR)
14.71	15.4	21.9	14.82	0.01
301.31	4163.8	21.8	301.21	-0.01
588.75	8328.8	21.8	588.47	-0.02
875.63	12497.9	21.8	875.73	0.01
1161.80	16657.7	21.8	1162.06	0.02
1450.07	20843.0	21.8	1449.87	-0.01
1163.05	16672.2	21.8	1163.06	0.00
875.93	12501.9	21.9	876.01	0.01
588.70	8332.6	21.9	588.74	0.00
301.54	4167.0	21.9	301.44	-0.01
14.71	14.8	21.9	14.77	0.00

THERMAL CORRECTION

TEMP (°C)	INSTRUMENT OUTPUT (counts)
32.50	23.23
29.00	24.83
24.00	26.36
18.50	27.53
15.00	27.55
4.50	24.89
1.00	23.81

TEMPERATURE (°C)	SPAN
-5.00	24.82
35.00	24.77

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

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

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

$\text{Residual (\%FSR)} = (\text{computed pressure} - \text{true pressure}) * 100 / \text{Full Scale Range}$

Date, Offset (%FSR)
● 26-Apr-21 0.03
▲ 06-Jan-25 0.00

POST CRUISE CALIBRATION