SENSOR SERIAL NUMBER: 1637
CALIBRATION DATE: 03-Jan-25

SBE 39 PRESSURE CALIBRATION DATA
508 psia S/N 5636

COEFFICIENTS:

PA0 =	7.296817e-002	PTCA0 =	9.955325e+001
PA1 =	2.395120e-002	PTCA1 =	3.590554e-001
PA2 =	1.692324e-009	PTCA2 =	-1.016604e-002
PTHA0 =	-8.960589e+001	PTCB0 =	2.524750e+001
PTHA1 =	4.580435e-002	PTCB1 =	-2.900000e-003
PTHA2 =	-4.237656e-007	PTCB2 =	0.000000e+000

PRESSURE SPAN CALIBRATION

PRESSURE (PSIA)	INSTRUMENT OUTPUT (counts)	THERMISTOR OUTPUT (counts)	COMPUTED PRESSURE (PSIA)	RESIDUAL (%FSR)
14.36	697.4	2477.0	14.35	-0.00
104.60	4454.5	2478.0	104.59	-0.00
204.63	8616.4	2477.0	204.61	-0.00
304.64	12774.1	2478.0	304.59	-0.01
404.64	16931.0	2478.0	404.60	-0.01
504.63	21086.1	2477.0	504.63	0.00
404.61	16933.0	2477.0	404.65	0.01
304.60	12776.2	2477.0	304.64	0.01
204.60	8617.0	2476.0	204.62	0.01
104.61	4455.7	2478.0	104.62	0.00
14.36	697.3	2476.0	14.35	-0.00

THERMAL CORRECTION

TEMP (°C)	THERMISTOR OUTPUT (counts)	INSTRUMENT OUTPUT (counts)
-1.50	1959.30	722.90
1.00	2015.60	723.56
4.50	2094.90	724.57
8.00	2174.60	725.46
11.50	2254.40	726.00
15.00	2334.00	726.42
18.50	2414.20	726.49
22.00	2494.30	726.38
25.50	2574.50	725.89
29.00	2654.50	725.13
32.50	2734.90	724.14

TEMPERATURE (°C)	SPAN
-5.00	25.26
35.00	25.15

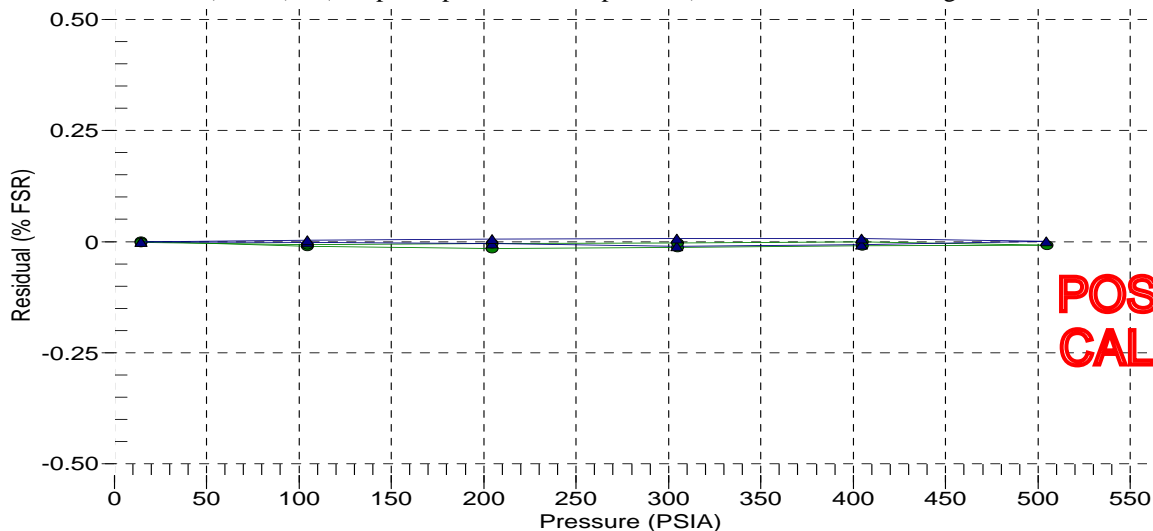y = thermistor output (counts)

$t = PTHA0 + PTHA1 * y + PTHA2 * y^2$

x = instrument output - $PTCA0 - PTCA1 * t - PTCA2 * t^2$

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

pressure (PSIA) = $PA0 + PA1 * n + PA2 * n^2$

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

Date, Offset (%FSR)
● 18-Apr-23   -0.01
▲ 03-Jan-25   -0.00

POST CRUISE CALIBRATION

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