SENSOR SERIAL NUMBER: 16243
CALIBRATION DATE: 24-Feb-25

SBE 37 V2 PRESSURE CALIBRATION DATA
2900 psia S/N 10755354

COEFFICIENTS:

PA0 =	7.094506e-001	PTCA0 =	5.242692e+005
PA1 =	8.999907e-003	PTCA1 =	5.686402e+000
PA2 =	-1.641495e-010	PTCA2 =	-9.023033e-002
PTEMPA0 =	-8.249601e+001	PTCB0 =	2.521812e+001
PTEMPA1 =	4.636570e-002	PTCB1 =	2.506266e-005
PTEMPA2 =	-1.154036e-007	PTCB2 =	0.000000e+000

PRESSURE SPAN CALIBRATION

PRESSURE (PSIA)	INSTRUMENT OUTPUT (counts)	THERMISTOR OUTPUT (counts)	COMPUTED PRESSURE (PSIA)	RESIDUAL (%FSR)
14.40	525891.8	2238.2	14.60	0.01
591.39	590028.0	2243.4	591.10	-0.01
1168.87	654442.6	2245.0	1168.74	-0.00
1745.81	718959.8	2246.2	1745.94	0.00
2322.90	783615.4	2247.4	2323.00	0.00
2900.09	848407.6	2249.8	2899.91	-0.01
2323.01	783625.8	2250.2	2323.09	0.00
1745.75	718957.2	2250.4	1745.91	0.01
1168.62	654432.4	2250.6	1168.64	0.00
591.45	590048.8	2251.8	591.28	-0.01
14.38	525878.4	2256.4	14.47	0.00

THERMAL CORRECTION

TEMP (°C)	THERMISTOR OUTPUT (counts)	INSTRUMENT OUTPUT (counts)
32.50	2496	525978.70
29.00	2419	525977.57
24.00	2310	525975.03
18.50	2190	525963.58
15.00	2114	525953.41
4.50	1885	525912.94
1.00	1809	525895.00

TEMPERATURE (°C)	SPAN
-4.90	25.22
35.00	25.22

y = thermistor output (counts)

$t = PTEMPA0 + PTEMPA1 * y + PTEMPA2 * y^2$

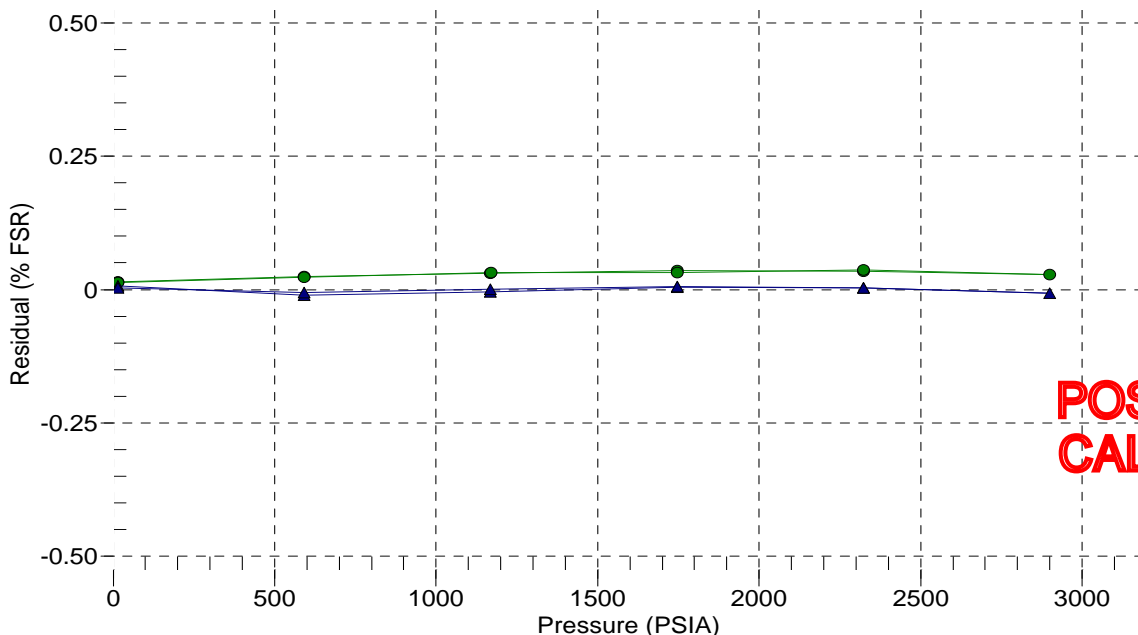x = instrument output - $PTCA0 - PTCA1 * t - PTCA2 * t^2$

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

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

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

Date, Offset (%FSR)
● 29-Sep-17   0.03
▲ 24-Feb-25   0.00

POST CRUISE
CALIBRATION

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