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SENSOR SERIAL NUMBER: 16246
CALIBRATION DATE: 26-Feb-25

SBE 37 V2 PRESSURE CALIBRATION DATA
2900 psia S/N 10746413

COEFFICIENTS:

PA0 =	1.001491e+000	PTCA0 =	5.238823e+005
PA1 =	8.982440e-003	PTCA1 =	5.811454e+000
PA2 =	-1.660672e-010	PTCA2 =	-3.190776e-002
PTEMPA0 =	-5.985247e+001	PTCB0 =	2.519075e+001
PTEMPA1 =	5.433869e-002	PTCB1 =	3.491272e-004
PTEMPA2 =	-6.419291e-007	PTCB2 =	0.000000e+000

PRESSURE SPAN CALIBRATION

PRESSURE (PSIA)	INSTRUMENT OUTPUT (counts)	THERMISTOR OUTPUT (counts)	COMPUTED PRESSURE (PSIA)	RESIDUAL (%FSR)
14.58	525523.4	1536.8	14.72	0.00
591.49	589808.0	1540.6	591.25	-0.01
1168.57	654329.8	1541.2	1168.53	-0.00
1745.74	719008.6	1542.2	1745.83	0.00
2322.88	783823.2	1543.2	2322.95	0.00
2900.03	848775.0	1543.6	2899.89	-0.01
2322.89	783826.2	1543.2	2322.97	0.00
1745.81	719019.6	1543.2	1745.92	0.00
1168.65	654344.6	1542.8	1168.66	0.00
591.32	589797.6	1542.6	591.15	-0.01
14.57	525519.0	1544.6	14.67	0.00

THERMAL CORRECTION

TEMP (°C)	THERMISTOR OUTPUT (counts)	INSTRUMENT OUTPUT (counts)
32.50	1735	525628.65
29.00	1668	525618.63
24.00	1573	525597.78
18.50	1467	525570.64
15.00	1401	525553.76
4.50	1201	525501.89
1.00	1135	525480.43

TEMPERATURE (°C)	SPAN
-5.00	25.19
35.10	25.20

y = thermistor output (counts)

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

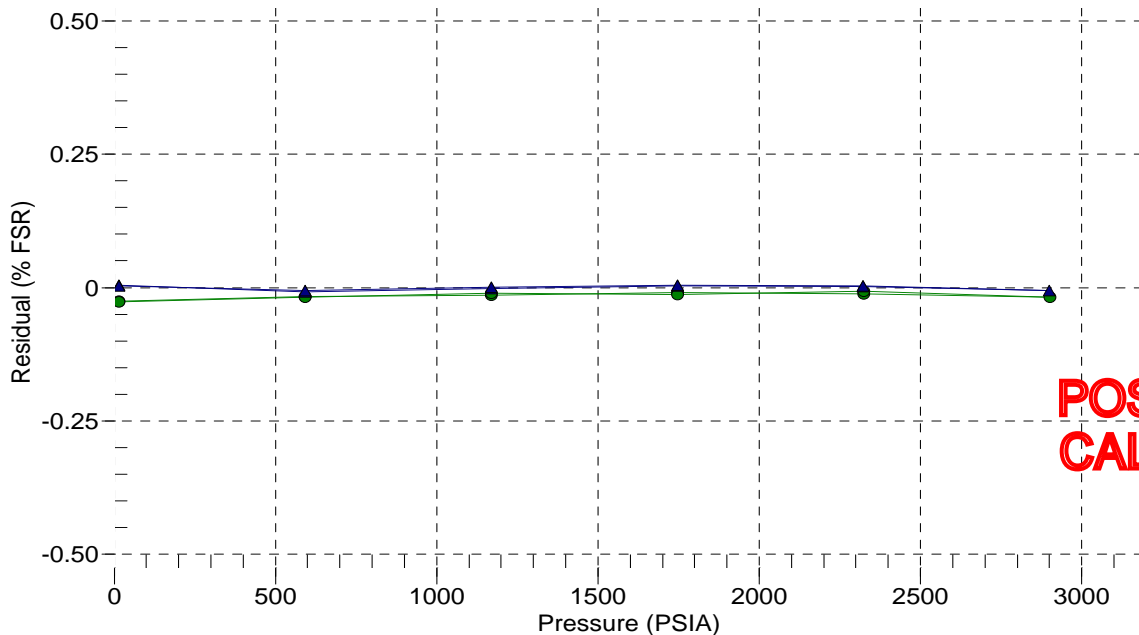x = instrument output - $PTCA0 - PTCA1 * t - PTCA2 * t^2$

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

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

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

Date, Offset (%FSR)

● 29-Sep-17   -0.02
▲ 26-Feb-25   0.00

POST CRUISE
CALIBRATION