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SENSOR SERIAL NUMBER: 3979  
CALIBRATION DATE: 07-Feb-24

SBE 37 PRESSURE CALIBRATION DATA  
1450 psia S/N 6410

#### COEFFICIENTS:

PA0 =	1.170576e-001	PTCA0 =	-2.076504e+002
PA1 =	6.902783e-002	PTCA1 =	7.561636e-002
PA2 =	-4.154254e-009	PTCA2 =	1.325046e-004
		PTCB0 =	2.473987e+001
		PTCB1 =	-6.250000e-004
		PTCB2 =	0.000000e+000

#### PRESSURE SPAN CALIBRATION

#### THERMAL CORRECTION

PRESSURE (PSIA)	INSTRUMENT OUTPUT (counts)	TEMPERATURE (°C)	COMPUTED PRESSURE (PSIA)	RESIDUAL (%FSR)	TEMP (°C)	INSTRUMENT OUTPUT (counts)
14.37	1.3	21.6	14.43	0.00	32.50	11.21
304.21	4198.2	21.6	304.21	-0.00	29.00	10.93
587.93	8309.3	21.6	587.93	-0.00	24.00	10.41
875.16	12473.6	21.5	875.17	0.00	18.50	9.89
1162.28	16638.2	21.5	1162.29	0.00	15.00	9.91
1449.52	20806.4	21.5	1449.51	-0.00	4.50	9.01
1162.53	16641.9	21.5	1162.54	0.00	1.00	8.59
875.37	12476.8	21.6	875.39	0.00		
588.23	8313.7	21.6	588.23	-0.00	TEMPERATURE (°C)	SPAN
301.15	4153.3	21.6	301.11	-0.00	-5.00	24.74
14.37	-0.1	21.7	14.33	-0.00	35.00	24.72

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

$$n = x * \text{PTCB0} / (\text{PTCB0} + \text{PTCB1} * t + \text{PTCB2} * t^2)$$

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

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

