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SENSOR SERIAL NUMBER: 3766  
CALIBRATION DATE: 31-Dec-24

SBE 37 PRESSURE CALIBRATION DATA  
1450 psia S/N 5755

#### COEFFICIENTS:

PA0 =	2.586697e-001	PTCA0 =	-1.920486e+002
PA1 =	6.932794e-002	PTCA1 =	3.102648e-002
PA2 =	-8.933259e-009	PTCA2 =	6.301389e-003
		PTCB0 =	2.473400e+001
		PTCB1 =	4.000000e-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)
14.64	20.6	22.0	14.74	0.01	32.50	35.14
308.02	4184.2	22.1	303.12	-0.34	29.00	34.00
589.02	8315.3	22.0	588.94	-0.01	24.00	32.26
876.17	12471.1	22.0	876.17	-0.00	18.50	30.51
1163.28	16629.8	21.8	1163.29	0.00	15.00	29.23
1450.39	20790.4	21.9	1450.23	-0.01	4.50	27.89
1163.39	16633.9	21.9	1163.57	0.01	1.00	27.80
876.21	12474.5	21.9	876.41	0.01		
589.04	8315.9	21.9	588.99	-0.00	TEMPERATURE (°C)	SPAN
301.85	4161.7	21.9	301.56	-0.02	-5.00	24.73
14.63	20.4	22.0	14.72	0.01	35.00	24.75

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

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

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

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

