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SENSOR SERIAL NUMBER: 0817
CALIBRATION DATE: 16-Sep-24

SBE 37 PRESSURE CALIBRATION DATA
1500 psia S/N 192113

COEFFICIENTS:

PA0 = -2.479942e-001
PA1 = 5.996179e-002
PA2 = 2.587834e-008

PTCA0 = -1.355621e+001
PTCA1 = -2.180931e-001
PTCA2 = 1.612936e-003
PTCB0 = 3.005400e+001
PTCB1 = -5.666667e-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)
14.50	225.2	22.8	14.32	-0.01	32.50	238.10
310.57	5144.9	22.8	310.13	-0.03	29.00	238.50
608.00	10062.8	22.9	607.09	-0.06	24.00	239.50
905.14	14963.7	22.8	904.26	-0.06	18.50	240.10
1202.50	19850.4	22.8	1201.81	-0.05	15.00	240.50
1499.56	24722.9	23.1	1499.74	0.01	4.50	242.40
1202.49	19868.5	23.0	1202.93	0.03	1.00	243.50
905.20	14991.7	22.8	905.96	0.05	TEMPERATURE (°C)	SPAN
607.98	10092.2	22.8	608.87	0.06		
310.74	5169.6	22.9	311.62	0.06		
14.49	226.8	23.0	14.42	-0.00		
					0.00	30.05
					30.00	30.04

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

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

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

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

