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SENSOR SERIAL NUMBER: 3722
CALIBRATION DATE: 09-Nov-23

SBE 37 PRESSURE CALIBRATION DATA
10153 psia S/N 6174

COEFFICIENTS:

PA0 =	8.200782e-001	PTCA0 =	-1.952670e+001
PA1 =	4.919623e-001	PTCA1 =	-6.758676e-002
PA2 =	-4.918774e-007	PTCA2 =	6.132702e-003
		PTCB0 =	2.458963e+001
		PTCB1 =	9.250000e-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)
14.57	11.0	22.9	15.00	0.00	32.50	13.60
2000.63	4065.8	23.0	1999.89	-0.01	29.00	12.59
3987.73	8159.3	23.0	3987.35	-0.00	24.00	11.29
5974.90	12287.9	23.0	5975.19	0.00	18.50	10.17
7962.41	16451.4	23.0	7962.88	0.00	15.00	9.68
9949.90	20647.9	23.0	9949.09	-0.01	4.50	9.24
7962.53	16451.9	23.0	7963.11	0.01	1.00	9.25
5975.15	12288.9	23.0	5975.67	0.01		
3988.08	8160.4	23.0	3987.88	-0.00	TEMPERATURE (°C)	SPAN
2000.84	4066.3	23.0	2000.13	-0.01	-5.00	24.59
14.55	11.2	23.1	15.08	0.01	35.00	24.62

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

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

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

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

