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SENSOR SERIAL NUMBER: 3936
CALIBRATION DATE: 29-Aug-24

SBE 37 PRESSURE CALIBRATION DATA
10153 psia S/N 7325

COEFFICIENTS:

PA0 = 2.180322e+000
PA1 = 4.884019e-001
PA2 = -4.683481e-007

PTCA0 = -1.257614e+001
PTCA1 = 3.184671e-001
PTCA2 = -5.374815e-003
PTCB0 = 2.482850e+001
PTCB1 = 7.000000e-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)
14.59	17.6	22.8	14.73	0.00	32.50	18.89
2000.81	4101.3	22.9	2000.03	-0.01	29.00	18.92
3987.85	8221.6	22.9	3987.31	-0.01	24.00	18.75
5975.00	12376.0	22.9	5974.96	-0.00	18.50	18.26
7962.36	16564.5	22.9	7962.58	0.00	15.00	17.78
9950.03	20786.6	22.9	9949.54	-0.00	4.50	15.55
7962.23	16564.6	22.9	7962.63	0.00	1.00	14.51
5975.15	12377.6	22.9	5975.72	0.01	TEMPERATURE (°C)	SPAN
3988.00	8223.5	22.9	3988.22	0.00		
2001.01	4103.0	23.0	2000.84	-0.00		
14.58	18.3	23.0	15.06	0.00		
					-5.00	24.82
					35.00	24.85

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

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

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

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

