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SENSOR SERIAL NUMBER: 1251
CALIBRATION DATE: 30-Oct-19

SBE 37 PRESSURE CALIBRATION DATA
1500 psia S/N 193472

COEFFICIENTS:

PA0 = 1.053808e-001
PA1 = 6.002697e-002
PA2 = 2.407844e-008

PTCA0 = -1.514649e+002
PTCA1 = 1.899233e-001
PTCA2 = -5.005687e-003
PTCB0 = 2.980200e+001
PTCB1 = -0.000000e+000
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)
14.69	94.9	22.0	14.79	0.01	32.50	95.30
314.89	5072.3	22.1	314.22	-0.04	29.00	95.33
614.87	10036.6	22.1	614.06	-0.05	24.00	95.57
914.90	14988.0	22.0	914.29	-0.04	18.50	95.96
1214.91	19923.1	22.0	1214.72	-0.01	15.00	96.23
1515.49	24840.2	22.0	1515.21	-0.02	4.50	94.96
1214.93	19935.4	21.9	1215.47	0.04	1.00	94.29
914.95	15011.9	21.9	915.75	0.05		
614.95	10066.3	22.0	615.85	0.06	TEMPERATURE (°C)	SPAN
314.96	5082.8	22.0	314.86	-0.01	0.00	29.80
14.68	98.3	22.0	14.99	0.02	30.00	29.80

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

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

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

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

Date, Offset (%FSR)

● 30-Oct-19 0.00

