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SENSOR SERIAL NUMBER: 0817
CALIBRATION DATE: 18-Oct-18

SBE 37 PRESSURE CALIBRATION DATA
1500 psia S/N 192113

COEFFICIENTS:

PA0 = -2.491916e-001
PA1 = 6.017429e-002
PA2 = 1.728943e-008

PTCA0 = -5.817148e+000
PTCA1 = -2.757410e-001
PTCA2 = 3.981133e-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)
14.68	242.3	22.0	14.94	0.02	32.50	251.20
312.57	5166.8	22.0	311.85	-0.05	29.00	251.05
609.81	10078.0	22.0	608.80	-0.07	24.00	251.47
907.07	14983.7	21.9	906.25	-0.06	18.50	252.33
1204.32	19873.7	22.0	1203.57	-0.05	15.00	252.32
1501.59	24758.9	22.0	1501.43	-0.01	4.50	255.04
1204.31	19897.4	22.1	1205.02	0.05	1.00	255.33
907.10	15018.9	22.0	908.39	0.09		
609.84	10118.1	22.0	611.23	0.09	TEMPERATURE (°C)	SPAN
312.56	5170.7	22.2	312.09	-0.03	0.00	30.05
14.68	243.1	22.1	14.99	0.02	30.00	30.04

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

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

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

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

