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SENSOR SERIAL NUMBER: 4590
CALIBRATION DATE: 14-Dec-17

SBE 37 PRESSURE CALIBRATION DATA
508 psia S/N 9315

COEFFICIENTS:

PA0 =	2.156609e-001	PTCA0 =	1.677584e+001
PA1 =	2.411180e-002	PTCA1 =	6.771774e-001
PA2 =	2.412844e-009	PTCA2 =	-1.247239e-002
		PTCB0 =	2.502950e+001
		PTCB1 =	1.000000e-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)
14.77	630.4	22.7	14.80	0.00	32.50	651.69
105.03	4370.2	22.7	105.00	-0.01	29.00	652.36
205.03	8513.4	22.7	205.02	-0.00	24.00	652.37
305.03	12653.0	22.7	305.04	0.00	18.50	651.63
405.03	16788.7	22.7	405.04	0.00	15.00	649.79
505.04	20919.8	22.7	505.02	-0.00	4.50	646.06
405.04	16789.1	22.8	405.05	0.00	1.00	643.69
305.04	12653.8	22.7	305.06	0.00		
205.05	8514.2	22.7	205.04	-0.00	TEMPERATURE (°C)	SPAN
105.05	4370.9	22.8	105.02	-0.01	-5.00	25.03
14.77	629.9	22.8	14.78	0.00	35.00	25.03

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

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

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

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

