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SENSOR SERIAL NUMBER: 3531
CALIBRATION DATE: 14-Dec-17

SBE 37 PRESSURE CALIBRATION DATA
508 psia S/N 4979

COEFFICIENTS:

PA0 =	1.845546e-001	PTCA0 =	8.864320e+001
PA1 =	2.411703e-002	PTCA1 =	5.402682e-001
PA2 =	1.019630e-009	PTCA2 =	-8.915236e-003
		PTCB0 =	2.512800e+001
		PTCB1 =	-1.400000e-003
		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	701.4	22.5	14.80	0.00	32.50	723.37
105.03	4436.6	22.5	105.01	-0.00	29.00	723.70
205.03	8576.2	22.4	205.02	-0.00	24.00	723.36
305.03	12714.3	22.4	305.04	0.00	18.50	722.60
405.03	16850.5	22.4	405.04	0.00	15.00	720.97
505.04	20984.5	22.4	505.02	-0.00	4.50	717.87
405.04	16850.8	22.6	405.05	0.00	1.00	715.84
305.04	12714.9	22.6	305.05	0.00		
205.05	8577.0	22.5	205.04	-0.00	TEMPERATURE (°C)	SPAN
105.05	4437.4	22.5	105.03	-0.00		
14.77	700.4	22.6	14.77	0.00		
					-5.00	25.14
					35.00	25.08

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

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

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

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

Date, Offset (%FSR)

● 14-Dec-17 -0.00

