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SENSOR SERIAL NUMBER: 3979  
CALIBRATION DATE: 08-Apr-19

SBE 37 PRESSURE CALIBRATION DATA  
1450 psia S/N 6410

#### COEFFICIENTS:

PA0 =	1.590111e-001	PTCA0 =	-2.091914e+002
PA1 =	6.901658e-002	PTCA1 =	1.343196e-001
PA2 =	-3.836035e-009	PTCA2 =	-1.405615e-003
		PTCB0 =	2.473987e+001
		PTCB1 =	-6.250000e-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	2.2	22.4	14.60	0.00	32.50	13.38
314.86	4350.3	22.6	314.78	-0.01	29.00	13.38
614.81	8697.6	22.6	614.76	-0.00	24.00	13.17
914.96	13048.1	22.6	914.82	-0.01	18.50	12.59
1214.82	17399.8	22.6	1214.82	-0.00	15.00	12.14
1464.84	21027.7	22.6	1464.80	-0.00	4.50	11.23
1214.79	17400.9	22.6	1214.89	0.01	1.00	10.73
914.80	13049.0	22.6	914.88	0.01		
614.78	8698.7	22.6	614.84	0.00	TEMPERATURE (°C)	SPAN
314.80	4351.5	22.6	314.86	0.00	-5.00	24.74
14.58	2.0	22.7	14.58	-0.00	35.00	24.72

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

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

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

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

