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SENSOR SERIAL NUMBER: 3764
CALIBRATION DATE: 30-Apr-19

SBE 37 PRESSURE CALIBRATION DATA
1450 psia S/N 5753

COEFFICIENTS:

PA0 =	3.576403e-001	PTCA0 =	-2.202302e+002
PA1 =	6.932419e-002	PTCA1 =	3.658186e-001
PA2 =	-1.478884e-009	PTCA2 =	-6.182222e-003
		PTCB0 =	2.462988e+001
		PTCB1 =	1.750000e-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)
14.67	-8.5	23.2	14.68	0.00	32.50	4.31
301.28	4126.9	23.3	301.28	0.00	29.00	4.40
588.53	8271.5	23.3	588.48	-0.00	24.00	4.12
875.68	12416.1	23.3	875.62	-0.00	18.50	3.65
1162.84	16562.8	23.4	1162.86	0.00	15.00	3.07
1449.84	20706.3	23.4	1449.83	-0.00	4.50	0.43
1162.88	16563.4	23.4	1162.90	0.00	1.00	-0.65
875.72	12417.7	23.4	875.73	0.00		
588.54	8273.3	23.4	588.60	0.00	TEMPERATURE (°C)	SPAN
301.33	4127.6	23.5	301.33	0.00	-5.00	24.63
14.67	-8.7	23.6	14.66	-0.00	35.00	24.64

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

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

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

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

