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SENSOR SERIAL NUMBER: 5398  
 CALIBRATION DATE: 03-Jan-18

SBE 41cp PRESSURE CALIBRATION DATA  
 2900 psia S/N 2142631

COEFFICIENTS:

PA0 =	3.217534e-001	PTCA0 =	4.138232e+001
PA1 =	1.389752e-001	PTCA1 =	-2.754266e-001
PA2 =	1.836777e-008	PTCA2 =	1.760281e-002
PTHA0 =	-9.915992e+001	PTCB0 =	1.047175e+002
PTHA1 =	4.161918e-002	PTCB1 =	-5.332717e-003
PTHA2 =	1.043137e-006	PTCB2 =	0.000000e+000

PRESSURE SPAN CALIBRATION

THERMAL CORRECTION

PRESSURE (PSIA)	INSTRUMENT OUTPUT (counts)	THERMISTOR OUTPUT (counts)	COMPUTED PRESSURE (PSIA)	RESIDUAL (%FSR)	TEMP (°C)	THERMISTOR OUTPUT (counts)	INSTRUMENT OUTPUT (counts)
14.67	147.5	2718.7	14.76	0.00	32.50	2946.00	158.48
591.98	4294.2	2720.8	592.02	0.00	29.00	2872.60	155.63
1169.41	8437.9	2721.7	1169.49	0.00	23.99	2766.70	152.23
1746.96	12577.7	2722.3	1747.06	0.00	18.50	2651.40	149.74
2324.52	16712.8	2723.0	2324.60	0.00	15.00	2576.40	148.70
2902.00	20842.0	2724.2	2901.95	-0.00	4.50	2352.10	147.94
2324.54	16712.3	2723.6	2324.53	-0.00	1.00	2276.60	148.52
1746.96	12576.4	2723.6	1746.88	-0.00			
1169.68	8438.6	2723.0	1169.59	-0.00	TEMPERATURE (°C)	SPAN	
592.07	4293.7	2723.0	591.95	-0.00	-6.49	104.75	
14.66	146.6	2723.4	14.62	-0.00	36.80	104.52	

y = thermistor output (counts)

$$t = PTHA0 + PTHA1 * y + PTHA2 * y^2$$

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

$$n = x * PTCB0 / (PTCB0 + PTCB1 * t + PTCB2 * t^2)$$

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

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

Date, Offset (%FSR)

● 03-Jan-18 0.00

