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## SENSOR SERIAL NUMBER: 3762 CALIBRATION DATE: 06-Apr-23

## SBE 37 PRESSURE CALIBRATION DATA 1450 psia S/N 5751

## **COEFFICIENTS:**

-1.912977e+002 2.430573e-001 PA0 =PTCA0 = PA1 =6.734028e-002 PTCA1 = 5.779511e-002 PA2 =-3.532263e-009 PTCA2 = 4.720649e-003 PTCB0 = 2.540563e+001 1.250000e-004 PTCB1 = 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)
14.43	22.1	22.2	14.37	-0.00	32.50	40.93
301.66	4289.5	22.2	301.63	-0.00	29.00	39.86
588.61	8553.7	22.3	588.55	-0.00	24.00	38.31
875.67	12822.5	22.3	875.66	-0.00	18.50	36.65
1162.92	17096.2	22.3	1162.96	0.00	15.00	36.06
1450.03	21367.8	22.3	1449.99	-0.00	4.50	34.64
1162.93	17096.0	22.3	1162.95	0.00	1.00	34.09
875.90	12826.6	22.4	875.93	0.00		
588.73	8556.9	22.4	588.77	0.00	TEMPERATURE (°C)	SPAN
301.65	4289.5	22.4	301.63	-0.00	-5.00	25.41
14.42	24.3	22.7	14.51	0.01	35.00	25.41

 $x = instrument output - PTCA0 - PTCA1 * t - PTCA2 * t^2$ 

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

pressure (PSIA) =  $PA0 + PA1 * n + PA2 * n^2$ 

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

