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SENSOR SERIAL NUMBER: 9017
CALIBRATION DATE: 16-Oct-18

SBE 37 V2 PRESSURE CALIBRATION DATA
870 psia S/N 3182129

COEFFICIENTS:

PA0 = 4.705939e-002
PA1 = 2.963966e-003
PA2 = 2.674201e-011
PTEMPA0 = -7.221187e+001
PTEMPA1 = 5.038315e-002
PTEMPA2 = -4.577970e-007

PTCA0 = 5.245184e+005
PTCA1 = 2.310295e+000
PTCA2 = -6.774225e-002
PTCB0 = 2.517350e+001
PTCB1 = 5.000000e-004
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)
14.71	529491.0	1914.0	14.73	0.00	32.50	2119	529654.00
179.97	585227.0	1917.0	179.95	-0.00	29.00	2047	529662.12
359.97	645890.0	1918.0	359.97	-0.00	24.00	1944	529668.51
539.97	706493.0	1918.0	540.00	0.00	18.50	1831	529670.61
719.97	767013.0	1919.0	719.99	0.00	15.00	1759	529669.79
869.96	817381.0	1919.0	869.93	-0.00	4.50	1544	529660.76
719.99	767017.0	1921.0	720.00	0.00	1.00	1473	529653.43
540.01	706497.0	1921.0	540.01	-0.00	TEMPERATURE (°C) SPAN		
360.01	645901.0	1921.0	360.00	-0.00			
180.00	585233.0	1921.0	179.97	-0.00			
14.71	529489.0	1921.0	14.72	0.00			
					-5.00		25.17
					35.00		25.19

y = thermistor output (counts)

t = PTEMPA0 + PTEMPA1 * y + PTEMPA2 * y²

x = instrument output - PTCA0 - PTCA1 * t - PTCA2 * t²

n = x * PTCB0 / (PTCB0 + PTCB1 * t + PTCB2 * t²)

pressure (PSIA) = PA0 + PA1 * n + PA2 * n²

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

Date, Offset (%FSR)

● 16-Oct-18 -0.00

