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SENSOR SERIAL NUMBER: 13247
CALIBRATION DATE: 07-Nov-18

SBE 37 V2 PRESSURE CALIBRATION DATA
508 psia S/N 4369700

COEFFICIENTS:

PA0 = -9.934175e-002
PA1 = 1.611964e-003
PA2 = 6.090526e-011
PTempa0 = 2.252280e+002
PTempa1 = -7.558141e-002
PTempa2 = -9.613802e-006

PTCA0 = 5.239388e+005
PTCA1 = -4.240204e-001
PTCA2 = -1.039774e-001
PTCB0 = 2.498288e+001
PTCB1 = -4.250000e-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)
14.81	533092.3	2113.1	14.77	-0.01	32.50	2027	533597.00
113.85	594257.0	2112.5	113.70	-0.03	29.00	2058	533621.38
212.79	655205.8	2111.7	212.73	-0.01	24.00	2101	533649.32
311.73	715875.1	2110.4	311.77	0.01	18.50	2148	533676.88
410.64	776189.6	2108.6	410.67	0.00	15.00	2178	533691.67
509.57	836168.9	2106.8	509.46	-0.02	4.50	2267	533716.66
410.64	776241.2	2108.3	410.75	0.02	1.00	2296	533719.77
311.68	715884.8	2109.3	311.78	0.02	TEMPERATURE (°C)		SPAN
212.76	655222.7	2110.1	212.76	0.00			
113.81	594252.1	2110.9	113.69	-0.02			
14.81	533240.7	2111.0	15.01	0.04	-5.00		24.98
					35.00		24.97

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)

● 07-Nov-18 -0.00

