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SENSOR SERIAL NUMBER: 13247
CALIBRATION DATE: 28-Aug-24

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

COEFFICIENTS:

PA0 = -1.542351e-001
PA1 = 1.608215e-003
PA2 = 7.022678e-011
PTempa0 = 2.596560e+002
PTempa1 = -1.090852e-001
PTempa2 = -1.431265e-006

PTCA0 = 5.238883e+005
PTCA1 = -1.509942e+000
PTCA2 = -1.301975e-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)
14.64	533003.0	2117.0	14.67	0.01	32.50	2028	533340.00
104.89	588872.0	2112.0	104.86	-0.01	29.00	2059	533370.00
204.89	650524.0	2111.0	204.88	-0.00	24.00	2103	533408.00
304.89	711847.0	2110.0	304.90	0.00	18.50	2150	533452.00
404.89	772844.0	2109.0	404.91	0.00	15.00	2180	533475.00
504.89	833482.0	2107.0	504.85	-0.01	4.50	2271	533517.00
404.89	772853.0	2109.0	404.92	0.01	1.00	2302	533520.00
304.89	711862.0	2110.0	304.92	0.01			
204.89	650530.0	2113.0	204.88	-0.00	TEMPERATURE (°C)		SPAN
104.89	588882.0	2113.0	104.87	-0.00	-5.00		24.98
14.63	532977.0	2112.0	14.64	0.00	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)

