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SENSOR SERIAL NUMBER: 21145
CALIBRATION DATE: 24-Feb-25

SBE 37 V2 PRESSURE CALIBRATION DATA
2900 psia S/N 5044127

COEFFICIENTS:

PA0 = -5.425350e-001
PA1 = 9.222910e-003
PA2 = 4.081844e-011
PTEMPA0 = -9.429644e+001
PTEMPA1 = 4.038763e-002
PTEMPA2 = 1.046742e-006

PTCA0 = 5.234528e+005
PTCA1 = -9.244110e+000
PTCA2 = 2.954908e-001
PTCB0 = 1.026713e+002
PTCB1 = -2.833067e-003
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)
14.40	525024.6	2662.6	14.56	0.01	32.50	2919	525178.45
591.39	587481.0	2667.4	591.08	-0.01	29.00	2843	525148.98
1168.87	650030.8	2669.4	1168.80	-0.00	24.00	2735	525118.79
1745.81	712488.0	2671.0	1745.97	0.01	18.50	2616	525097.87
2322.90	774896.2	2671.6	2323.02	0.00	15.00	2539	525094.72
2900.09	837248.2	2673.2	2899.86	-0.01	4.50	2308	525130.96
2323.01	774907.4	2674.2	2323.13	0.00	1.00	2230	525160.55
1745.75	712479.6	2675.2	1745.90	0.01	TEMPERATURE (°C)		SPAN
1168.62	650007.2	2675.6	1168.58	-0.00			
591.45	587494.6	2676.8	591.20	-0.01			
14.38	525026.6	2681.0	14.55	0.01	-5.50	34.49	102.69
							102.57

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

