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SENSOR SERIAL NUMBER: 16241
CALIBRATION DATE: 27-Feb-25

SBE 37 V2 PRESSURE CALIBRATION DATA
2900 psia S/N 10746416

COEFFICIENTS:

PA0 =	5.939648e-001	PTCA0 =	5.245583e+005
PA1 =	8.926897e-003	PTCA1 =	3.049197e+000
PA2 =	-1.617057e-010	PTCA2 =	-1.325279e-002
PTEMPA0 =	-7.651594e+001	PTCB0 =	2.523101e+001
PTEMPA1 =	4.824002e-002	PTCB1 =	-9.975062e-004
PTEMPA2 =	-2.523665e-007	PTCB2 =	0.000000e+000

PRESSURE SPAN CALIBRATION

PRESSURE (PSIA)	INSTRUMENT OUTPUT (counts)	THERMISTOR OUTPUT (counts)	COMPUTED PRESSURE (PSIA)	RESIDUAL (%FSR)	TEMP (°C)	THERMISTOR OUTPUT (counts)	INSTRUMENT OUTPUT (counts)
14.60	526199.0	2049.8	14.73	0.00	32.50	2287	526290.89
591.19	590784.0	2054.4	591.05	-0.00	29.00	2213	526284.86
1168.45	655635.0	2055.6	1168.39	-0.00	24.00	2107	526273.69
1745.71	720645.2	2056.4	1745.78	0.00	18.50	1990	526258.46
2322.88	785795.4	2057.6	2323.05	0.01	15.00	1916	526247.69
2900.18	851077.4	2058.4	2900.10	-0.00	4.50	1694	526221.69
2323.15	785788.2	2058.0	2322.98	-0.01	1.00	1621	526209.13
1745.60	720645.8	2057.8	1745.79	0.01	TEMPERATURE (°C) SPAN		
1168.48	655648.0	2057.2	1168.51	0.00			
591.32	590794.2	2057.4	591.14	-0.01			
14.60	526193.2	2066.0	14.66	0.00	-5.00		25.24
					35.10		25.20

THERMAL CORRECTION

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

