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SENSOR SERIAL NUMBER: 12120
CALIBRATION DATE: 02-Nov-23

SBE 37 V2 PRESSURE CALIBRATION DATA
508 psia S/N 4134752

COEFFICIENTS:

PA0 = 1.957174e-001
PA1 = 1.580937e-003
PA2 = 5.435502e-012
PTEMPA0 = -8.347122e+001
PTEMPA1 = 4.936156e-002
PTEMPA2 = -6.083950e-007

PTCA0 = 5.250782e+005
PTCA1 = 5.759944e+000
PTCA2 = -1.256215e-002
PTCB0 = 2.510263e+001
PTCB1 = -2.750000e-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)
14.38	534170.0	2207.0	14.38	0.00	32.50	2422	534752.00
104.65	591218.0	2210.0	104.61	-0.01	29.00	2346	534732.15
204.66	654431.0	2209.0	204.64	-0.00	24.00	2239	534706.63
304.67	717605.0	2210.0	304.65	-0.00	18.50	2121	534679.39
405.01	780748.0	2209.0	404.65	-0.07	15.00	2047	534661.00
504.68	843864.0	2210.0	504.66	-0.00	4.50	1823	534603.52
404.66	780771.0	2209.0	404.69	0.01	1.00	1749	534581.55
304.65	717626.0	2209.0	304.68	0.01	TEMPERATURE (°C)		SPAN
204.65	654448.0	2210.0	204.67	0.00			
104.65	591241.0	2210.0	104.65	-0.00			
14.38	534189.0	2210.0	14.41	0.00	-5.00		25.10
					35.00		25.09

y = thermistor output (counts)

$$t = PTEMPA0 + PTEMPA1 * y + PTEMPA2 * y^2$$

$$x = \text{instrument output} - PTCA0 - PTCA1 * t - PTCA2 * t^2$$

$$n = x * PTCB0 / (PTCB0 + PTCB1 * t + PTCB2 * t^2)$$

$$\text{pressure (PSIA)} = PA0 + PA1 * n + PA2 * n^2$$

$$\text{Residual (\%FSR)} = (\text{computed pressure} - \text{true pressure}) * 100 / \text{Full Scale Range}$$

Date, Offset (%FSR)

● 07-Sep-21 -0.02
▲ 02-Nov-23 0.00

