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SENSOR SERIAL NUMBER: 1245
CALIBRATION DATE: 07-Sep-21

SBE 37 PRESSURE CALIBRATION DATA
1500 psia S/N 193466

COEFFICIENTS:

PA0 =	1.058781e+001	PTCA0 =	-2.549098e+001
PA1 =	6.017991e-002	PTCA1 =	4.787015e+000
PA2 =	2.207152e-008	PTCA2 =	6.304206e-002
		PTCB0 =	3.000100e+001
		PTCB1 =	5.000000e-004
		PTCB2 =	0.000000e+000

PRESSURE SPAN CALIBRATION

THERMAL CORRECTION

PRESSURE (PSIA)	INSTRUMENT OUTPUT (counts)	TEMPERATURE (°C)	COMPUTED PRESSURE (PSIA)	RESIDUAL (%FSR)	TEMP (°C)	INSTRUMENT OUTPUT (counts)
14.48	213.4	27.1	14.37	-0.01	32.50	391.50
311.80	5127.8	26.9	310.63	-0.08	29.00	359.10
609.00	10041.8	26.9	607.83	-0.08	24.00	318.50
906.10	14941.9	26.8	905.31	-0.05	18.50	278.13
1203.21	19828.5	26.8	1202.97	-0.02	15.00	253.70
1500.33	24689.7	26.8	1500.13	-0.01	4.50	194.85
1203.15	19839.5	26.7	1203.69	0.04	1.00	170.12
906.07	14968.5	26.7	906.98	0.06		
608.95	10076.3	26.7	610.02	0.07	TEMPERATURE (°C)	SPAN
311.78	5158.3	26.6	312.62	0.06	0.00	30.00
14.48	217.4	26.7	14.81	0.02	30.00	30.02

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

$$n = x * \text{PTCB0} / (\text{PTCB0} + \text{PTCB1} * t + \text{PTCB2} * t^2)$$

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

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

Date, Offset (%FSR)

● 07-Sep-21 -0.00

