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SENSOR SERIAL NUMBER: 6244  
 CALIBRATION DATE: 16-Jan-23

SBE 19plus V2 PRESSURE CALIBRATION DATA  
 2900 psia S/N 11697697

COEFFICIENTS:

PA0 =	5.384757e-002	PTCA0 =	5.241799e+005
PA1 =	8.841067e-003	PTCA1 =	8.905320e-001
PA2 =	-1.581773e-010	PTCA2 =	-1.512815e-002
PTEMPA0 =	-6.185346e+001	PTCB0 =	2.523573e+001
PTEMPA1 =	5.454696e+001	PTCB1 =	7.880435e-004
PTEMPA2 =	-6.661966e-001	PTCB2 =	0.000000e+000

PRESSURE SPAN CALIBRATION

THERMAL CORRECTION

PRESSURE (PSIA)	INSTRUMENT OUTPUT (counts)	THERMISTOR OUTPUT (volts)	COMPUTED PRESSURE (PSIA)	RESIDUAL (%FSR)	TEMP (°C)	THERMISTOR OUTPUT (volts)	INSTRUMENT OUTPUT (counts)
13.21	525713.3	1.6	13.49	0.01	32.50	1.77	525808.15
589.64	590974.7	1.6	589.36	-0.01	29.00	1.70	525812.66
1167.85	656675.3	1.6	1167.74	-0.00	24.00	1.61	525814.46
1745.63	722509.8	1.6	1745.93	0.01	18.50	1.50	525810.49
2323.66	788474.0	1.6	2323.89	0.01	15.00	1.43	525806.76
2901.01	854461.4	1.6	2900.65	-0.01	4.50	1.24	525794.09
2323.05	788389.8	1.6	2323.13	0.00	1.00	1.17	525805.13
1748.55	722856.6	1.6	1748.95	0.01			
1167.69	656639.7	1.6	1167.41	-0.01	TEMPERATURE (°C)		SPAN
589.65	590951.0	1.6	589.14	-0.02	-2.20		25.23
13.20	525707.3	1.6	13.44	0.01	34.60		25.26

y = thermistor output (volts)

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

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

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

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

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

Date, Offset (%FSR)

● 16-Jan-23 -0.00

