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SENSOR SERIAL NUMBER: 9406
 CALIBRATION DATE: 24-Feb-21

Slocum Payload CTD PRESSURE CALIBRATION DATA
 1450 psia S/N 10230816

COEFFICIENTS:

PA0 =	-1.386780e-01	PTCA0 =	5.246047e+05
PA1 =	4.509786e-03	PTCA1 =	-3.751722e+00
PA2 =	-1.858317e-11	PTCA2 =	1.037759e-01
PTEMPA0 =	-6.542274e+01	PTCB0 =	2.494612e+01
PTEMPA1 =	5.127005e-02	PTCB1 =	-7.769424e-04
PTEMPA2 =	-3.991269e-07	PTCB2 =	0.000000e+00

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)
14.79	527941.0	1759.0	15.06	0.02	32.50	1939	527884.80
315.10	594417.0	1760.0	314.98	-0.01	29.00	1869	527874.40
615.01	660953.0	1760.0	615.01	-0.00	24.00	1769	527858.80
914.96	727521.0	1760.0	915.02	0.00	18.50	1659	527867.40
1214.96	794114.0	1761.0	1214.97	0.00	15.00	1588	527863.80
1464.93	849621.0	1760.0	1464.86	-0.00	4.50	1379	527877.20
1214.98	794123.0	1760.0	1215.01	0.00	1.00	1309	527894.00
915.04	727539.0	1760.0	915.10	0.00			
615.02	660960.0	1759.0	615.04	0.00	TEMPERATURE (°C)	SPAN	
315.08	594418.0	1760.0	314.98	-0.01	-5.00	24.95	
14.79	527848.0	1759.0	14.64	-0.01	34.90	24.92	

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)

● 24-Feb-21 -0.00

