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SENSOR SERIAL NUMBER: 9264
 CALIBRATION DATE: 03-Mar-23

Slocum Payload CTD PRESSURE CALIBRATION DATA
 1450 psia S/N 4314201

COEFFICIENTS:

PA0 =	-1.238819e-01	PTCA0 =	5.243208e+05
PA1 =	4.647081e-03	PTCA1 =	-1.125283e+00
PA2 =	-3.455797e-11	PTCA2 =	-4.475730e-03
PTEMPA0 =	1.544375e+02	PTCB0 =	2.514187e+01
PTEMPA1 =	-6.603413e-02	PTCB1 =	-2.250000e-04
PTEMPA2 =	-1.463247e-08	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)
14.46	527453.8	2007.2	14.56	0.01	32.50	1846	527478.20
301.61	589251.8	2006.2	301.65	0.00	29.00	1899	527469.80
588.80	651134.8	2004.2	588.88	0.01	24.00	1974	527476.60
876.02	713075.0	2003.2	876.10	0.01	18.50	2058	527491.80
1163.29	775074.0	2001.2	1163.33	0.00	15.00	2111	527503.00
1450.49	837110.6	2000.8	1450.47	-0.00	4.50	2269	527503.60
1163.31	775064.4	2001.8	1163.29	-0.00	1.00	2323	527512.60
876.09	713067.4	2003.2	876.06	-0.00			
588.88	651119.6	2005.6	588.80	-0.01	TEMPERATURE (°C)	SPAN	
301.70	589234.6	2005.4	301.57	-0.01	-5.00	25.14	
14.46	527420.0	2006.6	14.41	-0.00	35.00	25.13	

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)

● 03-Mar-23 0.00

