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SENSOR SERIAL NUMBER: 9483
CALIBRATION DATE: 29-Apr-25

Slocum Payload CTD PRESSURE CALIBRATION DATA
1450 psia S/N 11145975

COEFFICIENTS:

PA0 =	2.463128e-01	PTCA0 =	5.244851e+05
PA1 =	4.531814e-03	PTCA1 =	1.618146e+00
PA2 =	-2.491229e-11	PTCA2 =	3.471062e-02
PTEMPA0 =	-6.597745e+01	PTCB0 =	2.512738e+01
PTEMPA1 =	5.194257e-02	PTCB1 =	-5.250000e-04
PTEMPA2 =	-3.875793e-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)
14.59	527724.8	1718.2	14.70	0.01	32.50	1924	527770.10
301.35	590936.6	1720.4	301.18	-0.01	29.00	1854	527756.40
588.50	654373.4	1721.0	588.49	-0.00	24.00	1755	527740.10
875.69	717846.0	1721.8	875.76	0.00	18.50	1647	527724.30
1162.87	781340.2	1722.2	1162.92	0.00	15.00	1578	527703.20
1450.05	844838.8	1722.8	1449.91	-0.01	4.50	1371	527704.20
1162.28	781223.8	1723.0	1162.40	0.01	1.00	1302	527671.80
875.86	717885.2	1723.0	875.93	0.01			
588.62	654401.0	1723.0	588.61	-0.00	TEMPERATURE (°C)		SPAN
301.19	590898.0	1723.2	301.01	-0.01			
14.59	527723.8	1723.6	14.69	0.01			
					-5.00		25.13
					35.00		25.11

y = thermistor output (counts)

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

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

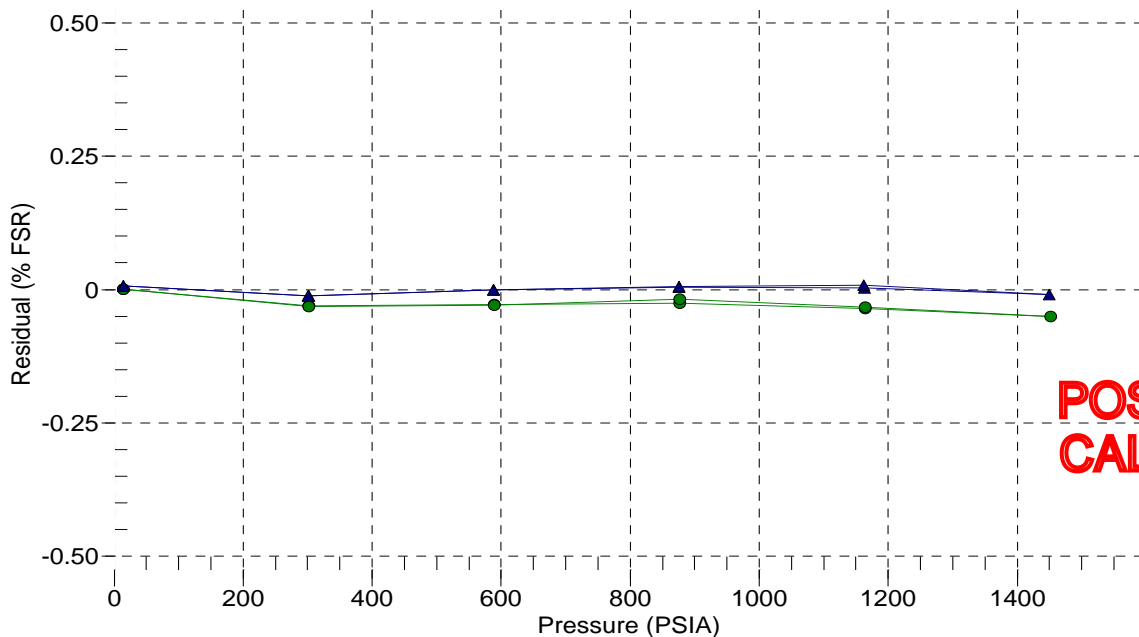
$$n = x * PTCB0 / (PTCB0 + PTCB1 * t + PTCB2 * t^2)$$

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

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

Date, Offset (%FSR)

● 07-Nov-18 -0.03
▲ 29-Apr-25 0.00



**POST CRUISE
CALIBRATION**