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SENSOR SERIAL NUMBER: 9431  
CALIBRATION DATE: 27-Mar-25

Slocum Payload CTD PRESSURE CALIBRATION DATA  
1450 psia S/N 10712103

#### COEFFICIENTS:

PA0 =	5.974504e-001	PTCA0 =	5.246041e+005
PA1 =	4.447068e-003	PTCA1 =	9.892330e+000
PA2 =	-1.918910e-011	PTCA2 =	-1.778355e-001
PTEMPA0 =	-6.714229e+001	PTCB0 =	2.528650e+001
PTEMPA1 =	5.122239e-002	PTCB1 =	1.000000e-004
PTEMPA2 =	-5.116478e-007	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)
14.33	527852.6	1804.4	14.44	0.01	32.50	1985	527929.80
299.37	591602.2	1805.8	297.83	-0.11	29.00	1914	527950.20
588.21	656964.4	1806.2	588.22	0.00	24.00	1812	527926.40
875.67	721718.0	1806.0	875.75	0.01	18.50	1701	527921.20
1162.91	786424.4	1806.2	1162.91	0.00	15.00	1630	527918.60
1450.16	851160.0	1806.8	1450.03	-0.01	4.50	1419	527832.60
1162.78	786429.8	1806.2	1162.93	0.01	1.00	1348	527816.60
875.44	721662.2	1805.8	875.50	0.00	TEMPERATURE (°C)		SPAN
588.44	656995.4	1805.8	588.36	-0.01			
301.03	592262.6	1805.6	300.77	-0.02			
14.33	527839.2	1805.8	14.38	0.00			
					-5.00		25.29
					35.00		25.29

y = thermistor output (counts)

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

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

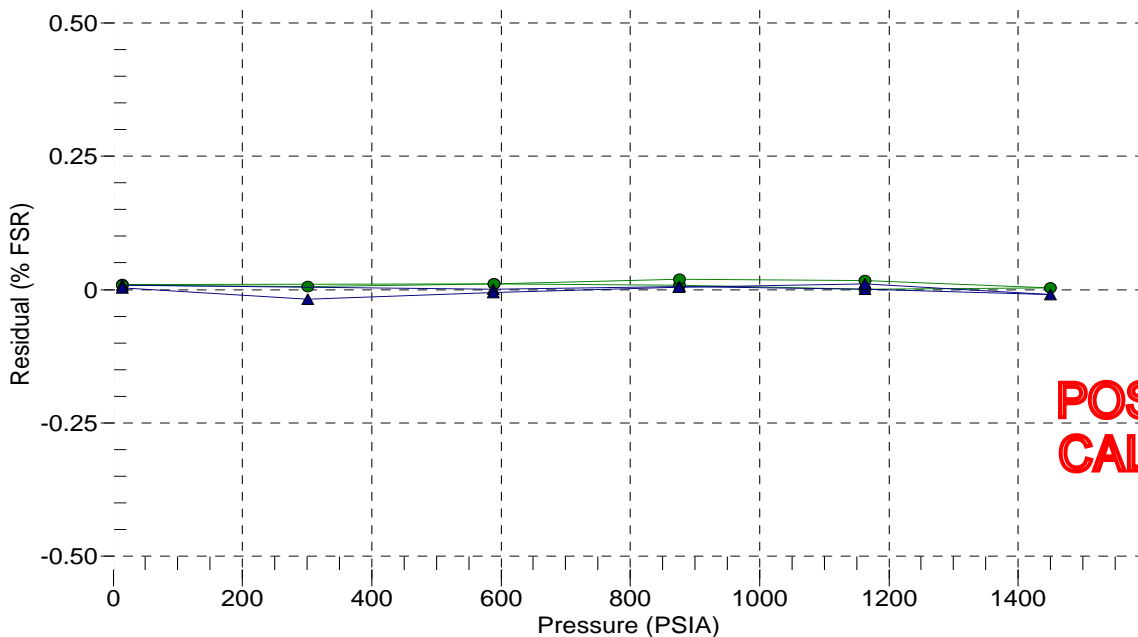
$$n = x * PTCB0 / (PTCB0 + PTCB1 * t + PTCB2 * t^2)$$

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

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

Date, Offset (%FSR)

● 04-Mar-21 0.01  
▲ 27-Mar-25 0.00



**POST CRUISE  
CALIBRATION**