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SENSOR SERIAL NUMBER: 9431
CALIBRATION DATE: 29-Apr-25

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

COEFFICIENTS:

PA0 =	5.852109e-001	PTCA0 =	5.246026e+005
PA1 =	4.448833e-003	PTCA1 =	9.892330e+000
PA2 =	-2.451623e-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)
14.59	527904.4	1774.6	14.69	0.01	32.50	1985	527929.80
301.35	592324.8	1776.4	301.14	-0.01	29.00	1914	527950.20
588.50	656995.2	1777.2	588.51	0.00	24.00	1812	527926.40
875.69	721685.2	1777.8	875.76	0.00	18.50	1701	527921.20
1162.87	786416.0	1778.2	1162.98	0.01	15.00	1630	527918.60
1450.05	851132.8	1779.0	1449.94	-0.01	4.50	1419	527832.60
1162.28	786409.4	1779.4	1162.95	0.05	1.00	1348	527816.60
875.86	721728.8	1779.2	875.95	0.01	TEMPERATURE (°C) -5.00 35.00		SPAN 25.29 25.29
588.62	657018.4	1779.6	588.61	-0.00			
301.19	592303.6	1780.2	301.05	-0.01			
14.59	527904.6	1780.2	14.68	0.01			

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)

● 29-Apr-25 0.00

