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SENSOR SERIAL NUMBER: 9082
CALIBRATION DATE: 31-Oct-19

Slocum Payload CTD PRESSURE CALIBRATION DATA
1450 psia S/N 3859875

COEFFICIENTS:

PA0 =	1.522711e-001	PTCA0 =	5.245264e+005
PA1 =	4.566858e-003	PTCA1 =	3.100712e-001
PA2 =	-2.097038e-011	PTCA2 =	5.366202e-002
PTEMPA0 =	-7.184993e+001	PTCB0 =	2.525588e+001
PTEMPA1 =	5.141351e-002	PTCB1 =	3.750000e-004
PTEMPA2 =	-5.659287e-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)
14.69	527748.0	1870.0	14.71	0.00	32.50	2077	527794.40
314.98	593536.0	1870.0	314.95	-0.00	29.00	2005	527783.20
615.00	659320.0	1870.0	615.00	-0.00	24.00	1904	527767.00
915.04	725145.0	1870.0	915.05	0.00	18.50	1793	527751.60
1214.97	790990.0	1870.0	1215.01	0.00	15.00	1722	527744.20
1464.98	845881.0	1870.0	1464.93	-0.00	4.50	1510	527732.60
1214.97	790988.0	1869.0	1215.00	0.00	1.00	1440	527727.40
915.02	725143.0	1870.0	915.04	0.00			
614.99	659319.0	1871.0	614.99	0.00			
315.03	593535.0	1872.0	314.95	-0.01	TEMPERATURE (°C)	SPAN	
14.68	527753.0	1871.0	14.73	0.00	-5.00	25.25	
					35.00	25.27	

y = thermistor output (counts)

t = PTEMPA0 + PTEMPA1 * y + PTEMPA2 * y²

x = instrument output - PTCA0 - PTCA1 * t - PTCA2 * t²

n = x * PTCB0 / (PTCB0 + PTCB1 * t + PTCB2 * t²)

pressure (PSIA) = PA0 + PA1 * n + PA2 * n²

Residual (%FSR) = (computed pressure - true pressure) * 100 / Full Scale Range

Date, Offset (%FSR)

● 31-Oct-19 -0.00

