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SENSOR SERIAL NUMBER: 0062
CALIBRATION DATE: 21-Nov-22

Prawler CTD PRESSURE CALIBRATION DATA
870 psia S/N 12225183

COEFFICIENTS:

PA0 =	-7.545606e-002	PTCA0 =	5.243962e+005
PA1 =	2.702229e-003	PTCA1 =	1.448195e+000
PA2 =	1.605387e-011	PTCA2 =	-1.275925e-001
PTEMPA0 =	-7.527537e+001	PTCB0 =	2.533312e+001
PTEMPA1 =	5.018133e-002	PTCB1 =	2.500000e-005
PTEMPA2 =	-2.415901e-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)
14.63	529823.0	1947.0	14.66	0.00	32.50	2170	529913.80
179.89	590930.0	1948.0	179.86	-0.00	29.00	2099	529942.80
359.91	657466.0	1948.0	359.86	-0.01	24.00	1998	529962.60
539.90	723951.0	1948.0	539.87	-0.00	18.50	1886	529984.10
719.87	790372.0	1949.0	719.85	-0.00	15.00	1815	529999.10
869.87	845683.0	1950.0	869.83	-0.00	4.50	1602	530007.70
719.85	790402.0	1949.0	719.93	0.01	1.00	1531	530004.60
539.86	723971.0	1948.0	539.93	0.01			
359.89	657482.0	1949.0	359.91	0.00	TEMPERATURE (°C)		SPAN
179.90	590938.0	1949.0	179.88	-0.00			
14.63	529811.0	1949.0	14.63	0.00			
					-5.00		25.33
					35.00		25.33

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)

● 21-Nov-22 -0.00

