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SENSOR SERIAL NUMBER: 0045
CALIBRATION DATE: 16-Dec-20

Prawler CTD PRESSURE CALIBRATION DATA
870 psia S/N 11573953

COEFFICIENTS:

PA0 =	-6.519048e-002	PTCA0 =	5.245082e+005
PA1 =	2.673372e-003	PTCA1 =	1.574971e-001
PA2 =	1.484479e-011	PTCA2 =	-4.867532e-002
PTEMPA0 =	-8.167559e+001	PTCB0 =	2.533734e+001
PTEMPA1 =	4.657292e-002	PTCB1 =	2.225000e-003
PTEMPA2 =	-1.077115e-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)
14.49	529944.0	2266.0	14.50	0.00	32.50	2466	530118.20
179.74	591853.0	2269.0	179.73	-0.00	29.00	2390	530127.70
359.75	659258.0	2269.0	359.76	0.00	23.99	2281	530140.00
539.75	726607.0	2269.0	539.78	0.00	18.50	2162	530145.70
719.74	793899.0	2269.0	719.77	0.00	15.00	2086	530161.10
869.73	849917.0	2270.0	869.71	-0.00	4.50	1858	530161.50
719.77	793895.0	2269.0	719.76	-0.00	1.00	1783	530165.30
539.79	726611.0	2269.0	539.79	-0.00	TEMPERATURE (°C) SPAN		
359.78	659259.0	2268.0	359.76	-0.00			
179.78	591859.0	2268.0	179.75	-0.00			
14.47	529939.0	2267.0	14.49	0.00			
					35.80		25.42

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)

● 16-Dec-20 -0.00

