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SENSOR SERIAL NUMBER: 0061
CALIBRATION DATE: 21-Nov-22

Prawler CTD PRESSURE CALIBRATION DATA
870 psia S/N 11917103

COEFFICIENTS:

PA0 =	-5.541406e-003	PTCA0 =	5.245805e+005
PA1 =	2.665550e-003	PTCA1 =	2.397991e+000
PA2 =	1.891741e-011	PTCA2 =	-1.180490e-001
PTEMPA0 =	-8.157647e+001	PTCB0 =	2.542675e+001
PTEMPA1 =	4.657256e-002	PTCB1 =	-2.500000e-004
PTEMPA2 =	1.307481e-008	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	530075.0	2207.0	14.65	0.00	32.50	2448	530204.50
179.89	592006.0	2209.0	179.85	-0.00	29.00	2373	530227.80
359.91	659428.0	2209.0	359.86	-0.00	24.00	2266	530241.10
539.90	726788.0	2209.0	539.88	-0.00	18.50	2147	530254.60
719.87	794069.0	2210.0	719.86	-0.00	15.00	2073	530265.20
869.87	850083.0	2209.0	869.83	-0.00	4.50	1847	530261.50
719.85	794087.0	2210.0	719.91	0.01	1.00	1772	530255.60
539.86	726804.0	2210.0	539.93	0.01			
359.89	659440.0	2210.0	359.90	0.00	TEMPERATURE (°C)		SPAN
179.90	592019.0	2209.0	179.89	-0.00	-5.00		25.43
14.63	530074.0	2210.0	14.65	0.00	35.00		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)

● 21-Nov-22 -0.00

