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SENSOR SERIAL NUMBER: 0028
CALIBRATION DATE: 09-May-22

Prawler CTD PRESSURE CALIBRATION DATA
870 psia S/N 4434658

COEFFICIENTS:

PA0 =	1.829569e-001	PTCA0 =	5.241544e+005
PA1 =	2.688797e-003	PTCA1 =	5.540911e+000
PA2 =	5.948946e-011	PTCA2 =	-1.119086e-001
PTEMPA0 =	2.964727e+002	PTCB0 =	2.490725e+001
PTEMPA1 =	-1.134088e-001	PTCB1 =	5.000000e-005
PTEMPA2 =	4.763544e-006	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)
14.46	529539.0	2720.0	14.48	0.00	32.50	2614	529901.20
179.72	590890.0	2717.0	179.69	-0.00	29.00	2657	529904.20
359.69	657546.0	2713.0	359.70	0.00	24.00	2711	529904.30
539.66	724002.0	2711.0	539.70	0.00	18.50	2772	529901.30
719.65	790255.0	2709.0	719.66	0.00	15.00	2816	529898.70
869.63	845304.0	2711.0	869.60	-0.00	4.50	2936	529861.20
719.65	790256.0	2707.0	719.67	0.00	1.00	2979	529842.60
539.68	724000.0	2712.0	539.69	0.00	TEMPERATURE (°C)		SPAN
359.72	657544.0	2713.0	359.70	-0.00			
179.75	590895.0	2712.0	179.71	-0.00			
14.46	529541.0	2713.0	14.48	0.00			
					-5.00		24.91
					35.00		24.91

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)

● 09-May-22 -0.00

