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SENSOR SERIAL NUMBER: 0026
 CALIBRATION DATE: 22-Oct-18

Glider Payload CTD PRESSURE CALIBRATION DATA
 2900 psia S/N 2085959

COEFFICIENTS:

PA0 =	-1.549045e+000	PTCA0 =	5.235622e+005
PA1 =	9.810848e-003	PTCA1 =	-1.297501e+001
PA2 =	7.342412e-011	PTCA2 =	2.480013e-001
PTEMPA0 =	-9.768791e+001	PTCB0 =	1.047710e+002
PTEMPA1 =	4.022761e-002	PTCB1 =	-5.062501e-003
PTEMPA2 =	1.191236e-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)
14.60	525047.5	2762.7	14.67	0.00	32.50	2974	525155.90
592.51	583830.5	2765.0	592.29	-0.01	29.00	2900	525145.10
1169.72	642532.9	2766.4	1169.62	-0.00	24.00	2794	525144.40
1747.08	701207.0	2768.1	1747.18	0.00	18.50	2676	525159.60
2324.29	759794.4	2769.5	2324.40	0.00	15.00	2601	525176.30
2901.47	818295.4	2770.9	2901.28	-0.01	4.50	2373	525261.10
2324.20	759783.1	2770.9	2324.30	0.00	1.00	2297	525301.00
1747.00	701202.9	2771.4	1747.16	0.01			
1169.63	642528.7	2771.9	1169.60	-0.00	TEMPERATURE (°C)	SPAN	
592.50	583831.6	2773.0	592.32	-0.01	-5.75	104.80	
14.59	525056.0	2777.9	14.77	0.01	37.53	104.58	

y = thermistor output (counts)

$$t = PTEMPA0 + PTEMPA1 * y + PTEMPA2 * y^2$$

$$x = \text{instrument output} - PTCA0 - PTCA1 * t - PTCA2 * t^2$$

$$n = x * PTCB0 / (PTCB0 + PTCB1 * t + PTCB2 * t^2)$$

$$\text{pressure (PSIA)} = PA0 + PA1 * n + PA2 * n^2$$

$$\text{Residual (\%FSR)} = (\text{computed pressure} - \text{true pressure}) * 100 / \text{Full Scale Range}$$

Date, Offset (%FSR)

● 22-Oct-18 0.00

