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SENSOR SERIAL NUMBER: 0164
CALIBRATION DATE: 26-Sep-19

Glider Payload CTD PRESSURE CALIBRATION DATA
44 psia S/N 4384302

COEFFICIENTS:

PA0 =	-3.318622e-002	PTCA0 =	5.253484e+005
PA1 =	1.386471e-004	PTCA1 =	9.956956e-001
PA2 =	4.947085e-012	PTCA2 =	-4.042354e-001
PTEMPA0 =	1.863263e+002	PTCB0 =	2.491388e+001
PTEMPA1 =	-5.930930e-002	PTCB1 =	-2.500000e-005
PTEMPA2 =	-7.428497e-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)
14.47	629342.0	2624.0	14.47	-0.00	32.50	2514	635599.70
24.49	700856.0	2629.0	24.49	0.00	29.00	2570	635732.20
29.49	736478.0	2622.0	29.49	0.00	24.00	2650	635742.60
34.50	772014.0	2619.0	34.50	-0.00	18.50	2736	635893.40
39.51	807475.0	2618.0	39.51	-0.00	15.00	2791	635946.10
44.52	842859.0	2615.0	44.52	0.01	4.50	2956	635996.40
39.51	807477.0	2626.0	39.51	-0.00	1.00	3011	636003.40
34.50	772001.0	2621.0	34.50	-0.00	TEMPERATURE (°C)		SPAN
29.49	736419.0	2626.0	29.49	0.00			
24.49	700882.0	2625.0	24.49	0.00			
14.47	629351.0	2634.0	14.47	-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)

● 26-Sep-19 0.00

