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SENSOR SERIAL NUMBER: 0286
CALIBRATION DATE: 21-Mar-19

Glider Payload CTD PRESSURE CALIBRATION DATA
44 psia S/N 11106115

COEFFICIENTS:

PA0 =	5.614702e-002	PTCA0 =	5.258497e+005
PA1 =	1.359331e-004	PTCA1 =	3.463222e+001
PA2 =	-3.133785e-012	PTCA2 =	-7.183074e-001
PTEMPA0 =	-7.802318e+001	PTCB0 =	2.505525e+001
PTEMPA1 =	4.863600e-002	PTCB1 =	4.500000e-004
PTEMPA2 =	-3.138293e-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)
14.64	633888.0	2091.0	14.64	-0.00	32.50	2307	638837.60
24.66	708085.0	2088.0	24.66	-0.01	29.00	2233	638878.60
29.68	745380.0	2088.0	29.68	0.00	24.00	2127	638917.80
34.69	782675.0	2089.0	34.69	0.01	18.50	2011	638877.20
39.69	819885.0	2089.0	39.68	-0.02	15.00	1937	638821.20
44.70	857389.0	2090.0	44.71	0.02	4.50	1716	638610.60
39.70	819882.0	2090.0	39.68	-0.03	1.00	1642	638523.60
34.68	782765.0	2091.0	34.70	0.05	TEMPERATURE (°C)		SPAN
29.68	745328.0	2090.0	29.67	-0.01			
24.63	708025.0	2091.0	24.65	0.04			
14.64	633888.0	2091.0	14.64	0.00			
					-5.00		25.05
					35.00		25.07

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-Mar-19 -0.00

