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SENSOR SERIAL NUMBER: 0118
CALIBRATION DATE: 13-Oct-20

Glider Payload CTD PRESSURE CALIBRATION DATA
160 psia S/N 3840151

COEFFICIENTS:

PA0 =	6.321066e-002	PTCA0 =	5.245842e+005
PA1 =	4.971968e-004	PTCA1 =	6.064291e+000
PA2 =	-6.666059e-012	PTCA2 =	-1.556812e-003
PTEMPA0 =	-7.108393e+001	PTCB0 =	2.496975e+001
PTEMPA1 =	5.140569e-002	PTCB1 =	7.500000e-004
PTEMPA2 =	-5.428425e-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)
14.39	553574.0	1852.0	14.39	0.00	32.50	2060	555351.60
29.66	584298.0	1852.0	29.64	-0.01	29.00	1989	555309.20
59.65	644818.0	1853.0	59.64	-0.01	24.00	1887	555269.50
94.66	715606.0	1854.0	94.67	0.00	18.50	1776	555273.30
124.66	776342.0	1855.0	124.66	-0.00	15.00	1705	555235.20
159.67	847349.0	1857.0	159.67	-0.00	4.50	1494	555173.70
124.68	776376.0	1859.0	124.68	-0.00	1.00	1424	555146.10
94.68	715663.0	1865.0	94.69	0.00	TEMPERATURE (°C) -5.00 35.00		SPAN 24.97 25.00
59.70	644943.0	1867.0	59.70	0.00			
29.72	584481.0	1868.0	29.73	0.00			
14.43	553639.0	1870.0	14.42	-0.00			

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)

● 13-Oct-20 0.00

