SENSOR SERIAL NUMBER: 0026
CALIBRATION DATE: 22-Dec-17

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

COEFFICIENTS:

PA0 = -1.696134e+000	PTCA0 = 5.235603e+005
PA1 = 9.804669e-003	PTCA1 = -1.336767e+001
PA2 = 9.127460e-011	PTCA2 = 2.549299e-001
PTEMPA0 = -9.728618e+001	PTCB0 = 1.047710e+002
PTEMPA1 = 3.992116e-002	PTCB1 = -5.062501e-003
PTEMPA2 = 1.252390e-006	PTCB2 = 0.000000e+000

PRESSURE SPAN CALIBRATION

PRESSURE (PSIA)	INSTRUMENT OUTPUT (counts)	THERMISTOR OUTPUT (volts)	COMPUTED PRESSURE (PSIA)	RESIDUAL (%FSR)
14.72	525071.8	2767.7	14.83	0.00
591.73	583807.1	2767.5	591.68	-0.00
1168.82	642507.3	2767.7	1168.81	-0.00
1745.92	701148.1	2768.1	1746.00	0.00
2323.00	759713.8	2768.2	2323.07	0.00
2900.00	818193.3	2768.3	2899.91	-0.00
2322.91	759701.1	2767.8	2322.94	0.00
1745.88	701141.3	2767.4	1745.93	0.00
1168.86	642504.8	2767.1	1168.79	-0.00
591.63	583791.3	2766.9	591.52	-0.00
14.72	525060.5	2766.9	14.72	-0.00

THERMAL CORRECTION

TEMP (°C)	THERMISTOR OUTPUT (volts)	INSTRUMENT OUTPUT (counts)
32.50	2974	525149.30
29.00	2900	525137.90
24.00	2794	525137.10
18.50	2676	525152.50
15.00	2601	525171.30
4.50	2373	525258.50
1.00	2297	525298.60

TEMPERATURE (°C)	SPAN
-5.75	104.80
37.53	104.58

y = thermistor output (counts)

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

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

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

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

Residual (%FSR) = (computed pressure - true pressure) * 100 / Full Scale Range

Date, Offset (%FSR)

● 22-Dec-17   -0.00