SENSOR SERIAL NUMBER: 9324
CALIBRATION DATE: 24-Feb-21

Slocum Payload CTD PRESSURE CALIBRATION DATA
1450 psia S/N 4417960

COEFFICIENTS:

PA0 =	3.046814e-02	PTCA0 =	5.254379e+05
PA1 =	4.638933e-03	PTCA1 =	-6.878708e+00
PA2 =	-2.918458e-11	PTCA2 =	3.053297e-01
PTEMPA0 =	1.599078e+02	PTCB0 =	2.537750e+01
PTEMPA1 =	-6.000413e-02	PTCB1 =	-1.000000e-04
PTEMPA2 =	-1.006424e-06	PTCB2 =	0.000000e+00

PRESSURE SPAN CALIBRATION

PRESSURE (PSIA)	INSTRUMENT OUTPUT (counts)	THERMISTOR OUTPUT (volts)	COMPUTED PRESSURE (PSIA)	RESIDUAL (%FSR)
14.79	528637.0	2193.0	14.84	0.00
315.10	593383.0	2189.0	315.08	-0.00
615.01	658116.0	2189.0	615.02	0.00
914.96	722909.0	2188.0	914.99	0.00
1214.96	787756.0	2185.0	1214.96	0.00
1464.93	841826.0	2188.0	1464.91	-0.00
1214.98	787760.0	2190.0	1214.99	0.00
915.04	722922.0	2187.0	915.05	0.00
615.02	658116.0	2189.0	615.02	0.00
315.08	593368.0	2197.0	315.03	-0.00
14.79	528623.0	2195.0	14.78	-0.00

THERMAL CORRECTION

TEMP (°C)	THERMISTOR OUTPUT (volts)	INSTRUMENT OUTPUT (counts)
32.50	2053	528729.20
29.00	2107	528680.40
24.00	2185	528635.40
18.50	2270	528585.60
15.00	2324	528621.00
4.50	2486	528581.60
1.00	2540	528630.60

TEMPERATURE (°C)	SPAN
-5.00	25.38
35.00	25.37

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)
● 24-Feb-21   -0.00