

APPENDIX D

TELEMETRY INTERFACE DESIGN FOR THE COOLER DRIVE ELECTRONICS

FSCM NO. 65113

DOCUMENT NO.: LMSC-P098320-2

CONTRACT NO.

BASIC ISSUE DATE 12 February, 1994

REVISION DATE 3 June, 1996

Total Page Count = 29

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**Telemetry Interface Design
for the Cooler Drive Electronics**

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REVISIONS

REV	AUTHORITY	SIGNATURE	DATE
A	1) Clarify interface description. 2) Correct errors in checksum description.		
B	1) Clarify interface description. 2) Add power on default section.		
C	Clarify baseline and program specific information.		

Message Syntax & Protocol

The serial port shall operate at 9600 baud, 8bits, odd parity, & 1 stop bit. The Cooler Drive Electronics (CDE) echoes each byte that it receives.

The spacecraft computer sends command lines to the CDE over the serial port and receives possible replies from the controller over the serial port.

Each command line is terminated by ASCII carriage return and consists of a list of blank-separated commands. Each command is a command name, possibly followed by a parameter list. The parameter list, if any, would be blank-separated from the command name. *Max length 512 bytes including carriage return.*

Each command name is an alphanumeric string beginning with an alphabetic character. When a channel is required the indicated values shall be used -

- 0 = Compressor A
- 1 = Displacer A
- 2 = Compressor B
- 3 = Displacer B

Checking the list of commands below, one can see that

"vcm 2 mode 1 report<CR>" would cause the controller to:

- 1) set the vibration control mode for Acceleration DECS
- 2) set the controller mode for temperature control
- 3) request a list of readings of various monitoring points

Whenever an error interpreting the command line occurs, the offending string is simply skipped over. The succeeding string is expected to be a command.

Telemetry data sent from the CDE to the spacecraft includes a checksum byte. The checksum is generated by first summing each byte of data as it is being sent, then taking the ones complement, then stripping off the high order bit, and finally sending this result as the checksum. This allows the data to be verified by the receiver by first summing the data as it is received (not including the checksum), then adding it to our checksum word and stripping the high order bit. For valid data the result will always be 7Fh (127 decimal).

Commands

mode <n>

- <n> = 0: Cooler "off", i.e. all waveforms are DC 0 volts.
- <n> = 1: Temperature control mode. The amplitudes of the two compressor waveforms are adjusted to drive the diode selected by tsrc to the target temperature selected by ttem.
- <n> = 2: Manual mode. Amplitude & bias of all waveforms are under user control from the command line.

vcm <n>

Set vibration control mode where:

<n> = 0: DECS off. No DECS correction.

<n> = 1: Position DECS (P-DECS) active.

<n> = 2: Acceleration DECS (A-DECS) active.

Note: When in P-DECS (Position Digital Error Correction System) vibration control mode P-DECS runs on all four motors. While in A-DECS (Acceleration) mode A-DECS runs on the B compressor channel and P-DECS runs on the other three motors.

ttem <n>

(SCRS Instrument Use Only)

Set target temperature where <n> ranges from 0 thru 59, representing -
50 + (<n>/2) deg K

n	t (deg K)	n	t (deg K)	n	t (deg K)	n	t (deg K)
0	50.00	15	57.50	30	65.00	45	72.50
1	50.50	16	58.00	31	65.50	46	73.00
2	51.00	17	58.50	32	66.00	47	73.50
3	51.50	18	59.00	33	66.50	48	74.00
4	52.00	19	59.50	34	67.00	49	74.50
5	52.50	20	60.00	35	67.50	50	75.00
6	53.00	21	60.50	36	68.00	51	75.50
7	53.50	22	61.00	37	68.50	52	76.00
8	54.00	23	61.50	38	69.00	53	76.50
9	54.50	24	62.00	39	69.50	54	77.00
10	55.00	25	62.50	40	70.00	55	77.50
11	55.50	26	63.00	41	70.50	56	78.00
12	56.00	27	63.50	42	71.00	57	78.50
13	56.50	28	64.00	43	71.50	58	79.00
14	57.00	29	64.50	44	72.00	59	79.50

ttemf <n>

Set target temperature where <n> ranges from 0 thru 4096, representing 50 to
110 deg K

setP <n>**setI <n>****setD <n>**

The gains defining the characteristics of the PID temperature control loop where
setP sets the amount of proportional gain, setI sets the amount of integral gain,
and setD sets the amount of derivative gain. In each instance, <n> represents a
gain of <n>/32768.

ilim <n>

Set the integrator limit on the PID temperature control loop to the value <n>.

bias <a><c>

Set the bias of sine on channel <c> to <a>/204.8 volts.

The scale factor for the bias command is 0.004883 mm per count when the sensor scaling is set to nominal of ± 10 V = ± 10 mm. The resolution of 0.004883 mm is based on a 12 bit data converter and ± 10 mm sensor range ($20 / 4096 = 0.004883$). If the requested bias + amp drives the sine beyond the wmin or wmax settings, the bias implemented will be clipped to maintain those bounds. The value of <a> is determined by dividing the desired offset by 0.004883 or by multiplying the desired offset by 204.8.

amp <a><c>

Set the peak amplitude of sine on channel <c> to <a>/204.8 volts.

The scale factor for the amp command is 0.004883 mm per count when the sensor scaling is set to nominal of ± 10 V = ± 10 mm. The resolution of 0.004883 mm is based on a 12 bit data converter and ± 10 mm sensor range ($20 / 4096 = 0.004883$). If the requested bias + amp drives the sine beyond the wmin or wmax, the amplitude implemented will be clipped to maintain those bounds. Note: this is not peak-to-peak amplitude, but is the greatest excursion of the sine from 0V. The value of <a> is determined by dividing the peak amplitude by 0.004883 or by multiplying the peak amplitude by 204.8.

wmin <a><c>

Set the piston travel limit in the direction of the target plate where - channel <c> to <a>/204.8 volts. The requested limit must be less than that set by the 'wmax' command.

The scale factor for the wmin command is 0.004883 mm per count when the sensor scaling is set to nominal of ± 10 V = ± 10 mm. The resolution of 0.004883 mm is based on a 12 bit data converter and ± 10 mm sensor range ($20 / 4096 = 0.004883$). The value of <a> is determined by dividing the negative limit by 0.004883 or by multiplying the negative limit by 204.8.

wmax <a><c>

Set the piston travel limit in the direction of the compression head where - channel <c> to <a>/204.8 volts. The requested limit must be greater than that set by the 'wmin' command.

The scale factor for the wmax command is 0.004883 mm per count when the sensor scaling is set to nominal of ± 10 V = ± 10 mm. The resolution of 0.004883 mm is based on a 12 bit data converter and ± 10 mm sensor range ($20 / 4096 = 0.004883$). The value of <a> is determined by dividing the positive limit by 0.004883 or by multiplying the positive limit by 204.8.

phase <a><c>

Set the phase offset of the sine on channel <c> to <a>/4096 radians.

The scale factor and resolution for the phase command is 0.000244 radians (0.01398 degrees) per count.

tsrc <n>

Select diode <n> as the diode whose temperature is to be controlled, 0 = backup cryo diode, 2 = primary cryo diode

Instrument Specific Command**spc <n>**

The frequency range is set in firmware to instrument requirements.

Sets the cooler system drive frequency. spc represents the number of samples-per-cycle used to generate the waveform (range <n> = 196 to 255);

SCRS Instrument and Baseline CDE: $13021/n = \text{Frequency}$

n	f (Hz)	n	f (Hz)	n	f (Hz)
255	44.97	235	48.80	215	53.34
254	45.15	234	49.01	214	53.59
253	45.33	233	49.22	213	53.84
252	45.51	232	49.43	212	54.09
251	45.69	231	49.64	211	54.35
250	45.87	230	49.86	210	54.61
249	46.06	229	50.08	209	54.87
248	46.24	228	50.30	208	55.13
247	46.43	227	50.52	207	55.40
246	46.62	226	50.74	206	55.67
245	46.81	225	50.97	205	55.94
244	47.00	224	51.20	204	56.22
243	47.19	223	51.43	203	56.49
242	47.39	222	51.66	202	56.77
241	47.58	221	51.89	201	57.05
240	47.78	220	52.13	200	57.34
239	47.98	219	52.36	199	57.63
238	48.18	218	52.60	198	57.92
237	48.39	217	52.85	197	58.21
236	48.59	216	53.09	196	58.51

(spc <n> Continued on page 6)

spc <n> (Continued from page 5)

HTSSE Instrument:
 $9469.7/n \approx \text{Frequency}$

n	f (Hz)	n	f (Hz)	n	f (Hz)
255	37.14	235	40.30	215	44.05
254	37.28	234	40.47	214	44.25
253	37.43	233	40.64	213	44.46
252	37.58	232	40.82	212	44.67
251	37.73	231	40.99	211	44.88
250	37.88	230	41.17	210	45.09
249	38.03	229	41.35	209	45.31
248	38.18	228	41.53	208	45.53
247	38.34	227	41.72	207	45.75
246	38.49	226	41.90	206	45.97
245	38.65	225	42.09	205	46.19
244	38.81	224	42.28	204	46.42
243	38.97	223	42.47	203	46.65
242	39.13	222	42.66	202	46.88
241	39.29	221	42.85	201	47.11
240	39.46	220	43.04	200	47.35
239	39.62	219	43.24	199	47.59
238	39.79	218	43.44	198	47.83
237	39.96	217	43.64	197	48.07
236	40.13	216	43.84	196	48.31

Power up default: spc 237 (39.96Hz)

(spc <n> Continued on page 7)

(spc <n> Continued from page 6)

MOPITT Instrument:

9469.7/n = Frequency

n	f (Hz)	n	f (Hz)	n	f (Hz)
255	41.54	235	45.08	215	49.27
254	41.71	234	45.27	214	49.50
253	41.87	233	45.46	213	49.73
252	42.04	232	45.66	212	49.97
251	42.20	231	45.86	211	50.20
250	42.37	230	46.06	210	50.44
249	42.54	229	46.26	209	50.69
248	42.71	228	46.46	208	50.93
247	42.89	227	46.67	207	51.17
246	43.06	226	46.87	206	51.42
245	43.24	225	47.08	205	51.67
244	43.41	224	47.29	204	51.93
243	43.59	223	47.50	203	52.18
242	43.77	222	47.72	202	52.44
241	43.96	221	47.93	201	52.70
240	44.14	220	48.15	200	52.97
239	44.32	219	48.37	199	53.23
238	44.51	218	48.59	198	53.50
237	44.70	217	48.82	197	53.77
236	44.89	216	49.04	196	54.05

Power up default: spc 241 (43.96Hz)

dgain <g> <c>

Set the DECS gain on channel <c> to a value represented by <g> as follows:

DECS gain	<g>
1/32	5
1/16	4
1/8	3
1/4	2
1/2	1
1	0
2	6
4	7
8	8

dshif <s> <c>

Set the DECS shift for channel <c> to <s> (must be less than SPC). DECS shift is the amount of phase lead used in the error correction algorithm.

dbiscl <n>

A-DECS bias scale = <n>/65536. DECS uses the bias at compressor B times the bias scale during acceleration DECS

mon

Invoke the test monitor. (Not to be used in flight)

camp

The controller responds to 'camp' (current amplitudes) request by sending the current compressor and displacer amplitudes (comp A, disp A, comp B, disp B):

Byte	Description	Example, camp
1	Message length low byte; 7 bits binary, fixed message length is the number of data bytes + 1 (for the ID byte).	23h
2	Message length high byte; 7 bits binary.	00h
3	Message ID; 7 bit binary identifier.	03h
4 - 36	Message data; 33 ASCII characters.	camp: +00844 +00317 +00844 +00317
37	ASCII carriage return.	0Dh
38	Checksum; represented by a 7 bits binary, 1's complement checksum character for everything from byte 1 thru byte 37.	4Fh

Note: When in temperature control mode both compressor amplitudes are set by the requirements of the control algorithm, camp can be used to check on the current amplitudes.

atem

Controller responds to 'atem' (current temperature) request by sending the current temperature reading from the diode specified by the tsrc command:

Byte	Description	Example, atem
1	Message length low byte; 7 bits binary, fixed message length is the number of data bytes + 1 (for the ID byte).	05h
2	Message length high byte; 7 bits binary.	00h
3	Message ID; 7 bit binary identifier.	02h
4 - 7	Message data; 4 ASCII characters representing a hex string.	0423
8	Checksum; represented by a 7 bits binary, 1's complement checksum character for everything from byte 1 thru byte 7.	2Fh

show

Display the current values of user-settable parameters as in this example:

Byte	Description	Example, show
1	Message length low byte; 7 bits binary, fixed message length is the number of data bytes + 1 (for the ID byte).	72h
2	Message length high byte; 7 bits binary.	02h
3	Message ID; 7 bit binary identifier.	01h
4- 372	Message data; 369 ASCII characters.	temsrc: +00001 ttem: +00655<cr> P: +32767 I: +01024 D: +00512 tigrlim: +03000<cr> mode: +00001 vmode: +00001<cr> spcyc: +00235<cr> biasscl: +10355<cr> dgain: +00000 +00000 +00000 +00000<cr> dshif: +00035 +00036 +00035 +00036<cr> min: -00844 -00337 -00844 -00337<cr> max: +00845 +00338 +00845 +00338<cr> amp: +00844 +00317 +00844 +00318<cr> bias: +00000 +00000 +00000 +00000<cr> phase: +00000 +04218 +00000 +04218<cr>
373	Checksum; represented by a 7 bits binary, 1's complement, checksum character for everything from byte 1 thru byte 372.	7Dh

where:

temsrc is the diode selected for temperature control. 0 = backup cryo diode; 1 = primary cryo diode. See **tsrc** command.

ttem is the diode reading that would correspond to the temperature selected by the **ttem** command. See table under **ttem** command.

P, I, & D are the PID gains for temperature control. See **setP**, **setI**, **setD** commands.

mode controller operating mode.

0 = Cooler "off", 1 = Temperature control mode, 2 = Manual control of stroke.

vmode controller vibration control mode. 0 = DECS off; 1 = Position DECS; 2 = Acceleration DECS. See **vcm** command.

spcyc is the number of samples per cycle. See table under **spc** command.

biasscl is the A-DECS bias scale. See **dbiscl** command.

dgain shows the DECS gains for the 4 channels.

5 = 1/32; 4 = 1/16; 3 = 1/8; 2 = 1/4; 1 = 1/2; 0 = 1; 6 = 2; 7 = 4; 8 = 8.

dshif shows the DECS shifts for the 4 channels. See **dshif** command.

min shows the maximum excursion towards the target plate of the piston for the 4 channels. See **wmin** command.

(**show** Continued on page 11)

(show Continued from page 10)

min shows the maximum excursion towards the target plate of the piston for the 4 channels. See **wmin** command.

max shows the maximum excursion towards the compression head of the piston for the 4 channels. See **wmax** command.

amp shows the amplitudes for the 4 channels. See **amp** command.

bias shows the biases for the 4 channels. See **bias** command.

phase shows the phase for the 4 channels relative to a unity sine wave. See **phase** command.

report

Controller responds to **report** request with current performance and health and status data. The data is returned in the following format:

Byte	Description	Example, report
1	Message length low byte; 7 bits binary, fixed message length is the number of data bytes + 1 (for the ID byte).	17h
2	Message length high byte; 7 bits binary.	01h
3	Message ID; 7 bit binary identifier.	00h
4 - 153	Message data; 150 ASCII characters representing a hex string.	0D71 08C6 0E28 098F 0EC7 0A68 0F44 0B2F 0F91 0C0F 0FD0 0CE5 0FFF 0DC4 0CA0 080A 0FCB 0FCC 0FCC 0FCA 05EF 01DA 0200 021B 0FC2 0FC9 0FCC 0FCA 0FCA 0FD0
154	Checksum; represented by a 7 bits binary, 1's complement checksum character for everything from byte 1 thru byte 153.	33h

Using the above example the data as follows:

compressor X vibration (rms):	4 hex digits followed by a space	(0D71)
compressor Y vibration (rms):	"	(08C6)
displacer X vibration (rms):	"	(0E28)
displacer Y vibration (rms):	"	(098F)
compressor Z vibration (rms):	"	(0EC7)
displacer Z vibration (rms):	"	(0A68)
compressor A position (rms):	"	(0F44)
compressor B position (rms):	"	(0B2F)
displacer A position (rms):	"	(0F91)
displacer B position (rms):	"	(0C0F)

(report Continued on page 12)

(report Continued from page 11)

compressor A motor feedback current (rms):	"	(0FD0)
compressor B motor feedback current (rms):	"	(0CE5)
displacer A motor feedback current (rms):	"	(0FFF)
displacer B motor feedback current (rms):	"	(0DC4)
-12VDC monitor:	"	(0CA0)
-15VDC monitor:	"	(080A)
electronics temp 1:	"	(0FCB)
electronics temp 2:	"	(0FCC)
electronics temp 3:	"	(0FCC)
compressor temp:	"	(0FCA)
displacer temp:	"	(05EF)
+15VDC monitor:	"	(01DA)
+12VDC monitor:	"	(0200)
+5VDC monitor:	"	(021B)
temp diode 1 wide (50K to 300K):	"	(0FC2)
temp reference for drift compensation, wide:	"	(0FC9)
temp diode 2 wide (50K to 300K):	"	(0FCC)
temp diode 1 narrow (50K to 100K):	"	(0FCA)
temp reference for drift compensation, narrow:	"	(0FCA)
temp diode 2 narrow (50K to 100K):	"	(0FD0)

APPENDIX A

Baseline and SCRS CDE

Baseline and SCRS CDE Default Operating Parameters

- 1) Operating mode (**mode** 1, Temperature control mode)
- 2) Vibration control mode (**vcm** 1, Position Digital Error Correction System (P-DECS))
- 3) Target temperature (**ttem** 30, ≈ 65 deg K)
- 4) Temperature control loop proportional gain (**setP** 32767, proportional gain = 1.0)
- 5) Temperature control loop integral gain (**setI** 1024, integral gain = 0.031)
- 6) Temperature control loop derivative gain (**setD** 512, derivative gain = 0.016)
- 7) Temperature control loop integrator limit (**ilim** 3000, integrator limit = 3000)
- 8) Compressor A stroke bias (**bias** 0 0, 0.00 mm)
Compressor B stroke bias (**bias** 0 2, 0.00 mm)
- 9) Displacer A stroke bias (**bias** 0 1, 0.00 mm)
Displacer B stroke bias (**bias** 0 3, 0.00 mm)
- 10) **amp** 735 0, **amp** 317 1, **amp** 735 2, **amp** 317 3
(All amplitudes set to nominal for 2W @ 65 deg K)
- 11) **wmin** -844 0, **wmin** -337 1, **wmin** -844 2, **wmin** -337 3
(Compressor wmin set to -844, Displacer wmin set to -337)
- 12) **wmax** 845 0, **wmax** 338 1, **wmax** 845 2, **wmax** 338 3
(Compressor wmax set to 845, Displacer wmax set to -338)
- 13) **phase** 0 0, **phase** 4218 1, **phase** 0 2, **phase** 4218 3
(compressor phase set to zero, displacer phase set to 4218=52 degrees)
- 14) Diode for temperature control (**tsrc** 2, diode at the thermal interface)
- 15) Cooler operating frequency (**spc** 235, ≈ 55.41 Hz)
- 16) Compressor A Position DECS (P-DECS) gain (**dgain** 0 0, gain = 1)
Compressor B Position DECS (P-DECS) gain (**dgain** 0 2, gain = 1)
- 17) Displacer A Position DECS (P-DECS) gain (**dgain** 0 1, gain = 1)
Displacer B Position DECS (P-DECS) gain (**dgain** 0 3, gain = 1)
- 18) Compressor A Position DECS (P-DECS) shift (**dshif** 35 0, shift = 35)
Compressor B Position DECS (P-DECS) shift (**dshif** 35 2, shift = 35)
- 19) Displacer A Position DECS (P-DECS) shift (**dshif** 36 1, shift = 36)
Displacer B Position DECS (P-DECS) shift (**dshif** 36 3, shift = 36)
- 20) Position DECS (P-DECS) bias scale (**dbisc1** 10355, gain = 0.158)

APPENDIX B
HTSSE II CDE

HTSSE II CDE Default Operating Parameters

- 1) Operating mode (**mode** 0, cooler "off")
- 2) Vibration control mode (**vcm** 1, Position Digital Error Correction System (P-DECS))
- 3) Target temperature (**ttempf** 1474, ≈ 77 deg K)
- 4) Temperature control loop proportional gain (**setP** 32767, proportional gain = 1.0)
- 5) Temperature control loop integral gain (**setI** 1024, integral gain = 0.031)
- 6) Temperature control loop derivative gain (**setD** 512, derivative gain = 0.016)
- 7) Temperature control loop integrator limit (**ilim** 3000, integrator limit = 3000)
- 8) Compressor A stroke bias (**bias** 0 0, 0.00 mm)
Compressor B stroke bias (**bias** 0 2, 0.00 mm)
- 9) Displacer A stroke bias (**bias** 0 1, 0.00 mm)
Displacer B stroke bias (**bias** 0 3, 0.00 mm)
- 10) Compressor A stroke amplitude (**amp** 819 0, 8.00 mm)
Compressor B stroke amplitude (**amp** 819 2, 8.00 mm)
- 11) Displacer A stroke amplitude (**amp** 276 1, 2.70 mm)
Displacer B stroke amplitude (**amp** 276 3, 2.70 mm)
- 12) Compressor A stroke negative limit (**wmin** -901 0, -4.40 mm)
Compressor B stroke negative limit (**wmin** -901 2, -4.40 mm)
- 13) Displacer A stroke negative limit (**wmin** -307 1, -1.50 mm)
Displacer B stroke negative limit (**wmin** -307 3, -1.50 mm)
- 14) Compressor A stroke positive limit (**wamx** 901 0, 4.40 mm)
Compressor B stroke positive limit (**wamx** 901 2, 4.40 mm)
- 15) Displacer A stroke positive limit (**wmax** 307 1, 1.50 mm)
Displacer B stroke positive limit (**wmax** 307 3, 1.50 mm)
- 16) Phase relationship compressor to displacer: (**phase** 5004 1, 70.0 degrees)
- 17) Diode for temperature control (**tsrc** 2, diode at the thermal interface)
- 18) Cooler operating frequency (**spc** 237, ≈ 39.96 Hz)
- 19) Compressor A Position DECS (P-DECS) gain (**dgain** 1 0, gain = 0.5)
Compressor B Position DECS (P-DECS) gain (**dgain** 1 2, gain = 0.5)
- 20) Displacer A Position DECS (P-DECS) gain (**dgain** 1 1, gain = 0.5)
Displacer B Position DECS (P-DECS) gain (**dgain** 1 3, gain = 0.5)

(HTSSE Default Operating Parameters Continued on page 17)

(HTSSE Default Operating Parameters Continued from page 16)

- 21) Compressor A Position DECS (P-DECS) shift (**dshif 27 0**, shift = 27)
Compressor B Position DECS (P-DECS) shift (**dshif 27 2**, shift = 27)
- 22) Displacer A Position DECS (P-DECS) shift (**dshif 27 1**, shift = 27)
Displacer B Position DECS (P-DECS) shift (**dshif 27 3**, shift = 27)
- 23) Position DECS (P-DECS) bias scale (**dbiscl 7642**, gain = 0.1161; *Not used by the HTSSE cooler control system but command exists, this is for reference only*)

HTSSE II CDE "report" Engineering Units Conversion Motor Position Monitors (data items 7, 8, 9, &10)

Conversion from hexadecimal to rms position. From the 'report' command the data shall be interpreted as follows -

'report' Data Item	Description	SCALE	OFFSET
7:	Compressor A rms Position	2.009	0.0
8:	Compressor B rms Position	2.009	0.0
9:	Displacer A rms Position	2.000	0.0
10:	Displacer B rms Position	2.000	0.0

$$\text{POS_MON} = \{[\text{HEX2DEC}(\text{hex_value}) - 2048.5] * 0.004883\} * \text{SCALE} + \text{OFFSET}$$

The HEX2DEC(hex_value) function converts a hexadecimal number to decimal. 'Hex_value' is the parameter to be converted to a rms motor position.

EXAMPLE #1:

Issuing the 'report' command causes the CDE to return a hexadecimal value of 0A2C for data item #7 (Compressor A rms Position Monitor).

$$\text{COMP_A_POS_MON} = \{[\text{HEX2DEC}(0A2C) - 2048.5] * 0.004883\} * 2.009 + 0.0$$

$$\text{COMP_A_POS_MON} = \{[2604 - 2048.5] * 0.004883\} * 2.009 + 0.0$$

$$\text{COMP_A_POS_MON} = 5.449 \text{ mmrms}$$

With the system in P-DECS mode the position can be assumed to be sinusoidal so the output may be converted to peak-to-peak by multiplying by the square root of two.

$$\text{COMP_A_POS_MON} = 5.449 \text{ mmrms} * \sqrt{2}$$

$$\text{COMP_A_POS_MON} = 7.707 \text{ mmpp}$$

HTSSE II CDE "report" Engineering Units Conversion Motor Feedback Current Monitors (data items 11, 12, 13, &14)

Conversion from hexadecimal to secondary power supply voltage. From the 'report' command the data shall be interpreted as follows -

'report' Data Item	Description	SCALE	OFFSET
11:	Compressor A	1.0	0.0
12:	Compressor B	1.0	0.0
13:	Displacer A	1.0	0.0
14:	Displacer B	1.0	0.0

$$I_MON = \{ [\text{HEX2DEC}(\text{hex_value}) - 2048.5] * 0.004883 \} * \text{SCALE} + \text{OFFSET}$$

The HEX2DEC(hex_value) function converts a hexadecimal number to decimal. 'Hex_value' is the parameter to be converted to a rms motor current.

EXAMPLE #1:

Issuing the 'report' command causes the CDE to return a hexadecimal value of 0CBA for data item #15 (-12Vdc Monitor).

$$I_MON = \{ [\text{HEX2DEC}(0\text{CBA}) - 2048.5] * 0.004883 \} * 1.0 + 0.0$$

HTSSE II CDE "report" Engineering Units Conversion Secondary Power Supply Monitors (data items 15 & 16)

Conversion from hexadecimal to secondary power supply voltage. From the 'report' command the data shall be interpreted as follows -

'report' Data Item	Description	SCALE	OFFSET
15:	-12VDC monitor	-2.0	-0.1518
16:	-15VDC monitor	-2.0	-0.0922

$$V_MON = \{ \{ \text{HEX2DEC}(\text{hex_value}) - 2048.5 \} * 0.004883 \} * \text{SCALE} + \text{OFFSET}$$

The HEX2DEC(hex_value) function converts a hexadecimal number to decimal. 'Hex_value' is the parameter to be converted to a secondary power supply voltage.

EXAMPLE #1:

Issuing the 'report' command causes the CDE to return a hexadecimal value of 0CBA for data item #15 (-12Vdc Monitor).

$$-12\text{VDC_MON} = \{ \{ \text{HEX2DEC}(0\text{CBA}) - 2048.5 \} * 0.004883 \} * (-2.0) - 0.1518$$

$$-12\text{VDC_MON} = \{ \{ 3258 - 2048.5 \} * 0.004883 \} * (-2.0) - 0.1518$$

$$-12\text{VDC_MON} = -11.964$$

EXAMPLE #2:

Issuing the 'report' command causes the CDE to return a hexadecimal value of 0DEA for data item #16 (-15Vdc Monitor).

$$-15\text{VDC_MON} = \{ \{ \text{HEX2DEC}(0\text{DEA}) - 2048.5 \} * 0.004883 \} * (-2.0) - 0.0922$$

$$-15\text{VDC_MON} = \{ \{ 3562 - 2048.5 \} * 0.004883 \} * (-2.0) - 0.0922$$

$$-15\text{VDC_MON} = -14.873$$

HTSSE II CDE "report" Engineering Units Conversion CDE & Motor Temperature Monitors (data items 17, 18, 19, 20, & 21)

Conversion from hexadecimal to temperature in degrees celsius. From the 'report' command the data shall be interpreted as follows -

'report' Data Item	Description	SCALE	OFFSET
17:	Compressor A PWM Driver Temperature Monitor	-10.0	35.492
18:	Compressor B PWM Driver Temperature Monitor	-10.0	35.492
19:	Displacer Driver Temperature Monitor	-10.0	35.492
20:	Compressor Housing Temperature Monitor	-10.0	35.492
21:	Displacer Housing Temperature Monitor	-10.0	35.492

$$T_MON = \{[\text{HEX2DEC}(\text{hex_value}) - 2048.5] * 0.004883\} * \text{SCALE} + \text{OFFSET}$$

The HEX2DEC(hex_value) function converts a hexadecimal number to decimal. 'Hex_value' is the parameter to be converted to temperature.

EXAMPLE #1:

Issuing the 'report' command causes the CDE to return a hexadecimal value of 08C5 for data item #21 (Displacer Housing Temperature Monitor).

$$\text{DISP_MON} = \{[\text{HEX2DEC}(08C5) - 2048.5] * 0.004883\} * (-10.0) + 35.492$$

$$\text{DISP_MON} = \{[2245 - 2048.5] * 0.004883\} * (-10.0) + 35.492$$

$$\text{DISP_MON} = 25.9^{\circ}\text{C}$$

HTSSE II CDE "report" Engineering Unit Conversion Secondary Power Supply Monitors (data items 22, 23, & 24)

Conversion from hexadecimal to secondary power supply voltage. From the 'report' command the data shall be interpreted as follows -

'report' Data Item	Description	SCALE	OFFSET
22:	+15VDC monitor	-0.3869	12.1136
23:	+12VDC monitor	-0.3207	9.7141
24:	+5VDC monitor	-0.1466	4.455

$$V_MON = \{ [\text{HEX2DEC}(\text{hex_value}) - 2048.5] * 0.004883 \} * \text{SCALE} + \text{OFFSET}$$

The HEX2DEC(hex_value) function converts a hexadecimal number to decimal. 'Hex_value' is the parameter to be converted to a secondary power supply voltage.

EXAMPLE #1:

Issuing the 'report' command causes the CDE to return a hexadecimal value of 0CAC for data item #22 (+15Vdc Monitor).

$$+15\text{VDC_MON} = \{ [\text{HEX2DEC}(029\text{D}) - 2048.5] * 0.004883 \} * -0.3869 + 12.1136$$

$$+15\text{VDC_MON} = \{ [669 - 2048.5] * 0.004883 \} * -0.3869 + 12.1136$$

$$+15\text{VDC_MON} = 14.72$$

EXAMPLE #2:

Issuing the 'report' command causes the CDE to return a hexadecimal value of 0C69 for data item #23 (+12Vdc Monitor).

$$+12\text{VDC_MON} = \{ [\text{HEX2DEC}(02\text{BE}) - 2048.5] * 0.004883 \} * -0.3207 + 9.7141$$

$$+12\text{VDC_MON} = \{ [702 - 2048.5] * 0.004883 \} * -0.3207 + 9.7141$$

$$+12\text{VDC_MON} = 11.82$$

EXAMPLE #3:

Issuing the 'report' command causes the CDE to return a hexadecimal value of 0C3C for data item #24 (+5Vdc Monitor).

$$+5\text{VDC_MON} = \{ [\text{HEX2DEC}(05\text{BE}) - 2048.5] * 0.004883 \} * -0.1466 + 4.455$$

$$+5\text{VDC_MON} = \{ [1470 - 2048.5] * 0.004883 \} * -0.1466 + 4.455$$

$$+5\text{VDC_MON} = 4.87$$

HTSSE II CDE "report" Engineering Units Conversion Cryo Diode Readouts (data items 25, 26, 27, 28, 29, & 30)

Conversion from hexadecimal to temperature for both the wide and narrow cryo diode readout channels uses the same formula changing only the constants. Standard Curve #10 from Lake Shore Cryotronics, Inc. is also required to match the cryo diode calibration. From the 'report' command the data shall be interpreted as follows -

'report' Data Item	Description
25:	temp diode 1 wide range (50K to 300K)
26:	temp reference for drift compensation, wide range
27:	temp diode 2 wide range (50K to 300K)
28:	temp diode 1 narrow range (50K to 100K)
29:	temp reference for drift compensation, narrow range
30:	temp diode 2 narrow range (50K to 100K)

Note : Data items 26 and 29 are used by the CDE to compensate for drift due to changes in the temperature of the electronics. They are included in the data set for verification of the temperature controller performance. Data item 29 may be used to determine the amount of drift due to the temperature of the CDE or to compensate for drift. See section on the 'atem' command (page 20) for details on the how the report data may be compensated to get more accurate temperature readings.

Formula Constants

	SCALE	OFFSET
NARROW	-0.006119	1.02132
WIDE	-0.030533	0.77891

$$t_volts = \{ [\text{HEX2DEC}(\text{hex_value}) - 2048.5] * 0.004883 \} * \text{SCALE} + \text{OFFSET}$$

$$\text{temp} = \text{LOOKUP}(t_volts, \text{SCI0_VOLTS}, \text{SCI0_TEMP}) + \frac{t_volts - \text{LOOKUP}(t_volts, \text{SCI0_VOLTS}, \text{SCI0_VOLTS})}{0.001 * \text{LOOKUP}(t_volts, \text{SCI0_VOLTS}, \text{SCI0_dV_dT})}$$

The HEX2DEC(hex_value) function converts a hexadecimal number to decimal. 'Hex_value' is the wide or narrow parameter to be converted to a temperature.

The LOOKUP(t_volts, lookup_vector, result_vector) function searches the table (Standard Curve #10) to find 't_volts' in the lookup vector. 'Lookup_vector' is the searched vector. 'Result_vector' is the vector which is returned based on the search. If the LOOKUP() function can't find an exact match to 't_volts', it shall match the largest value in 'lookup_vector' that is less than or equal to 't_volts'.

EXAMPLE #1:

Issuing the 'report' command causes the CDE to return a hexadecimal value of 080D for data item #28 (temp diode 1 narrow range (50K to 100K)).

$$t_volts = \{ [\text{HEX2DEC}(080D) - 2048.5] * 0.004883 \} * (-0.006119) + 1.02132$$

$$t_volts = \{ [2061 - 2048.5] * 0.004883 \} * (-0.006119) + 1.02132$$

$$t_volts = 1.02095$$

$$\text{temp} = \text{LOOKUP}(1.02095, \text{SCI0_VOLTS}, \text{SCI0_TEMP}) + \frac{1.02095 - \text{LOOKUP}(1.02095, \text{SCI0_VOLTS}, \text{SCI0_VOLTS})}{0.001 * \text{LOOKUP}(1.02095, \text{SCI0_VOLTS}, \text{SCI0_dV_dT})}$$

$$\text{temp} = 80 + \frac{1.02095 - 1.01525}{0.001 * -1.93}$$

$$\text{temp} = 77.05K$$

HTSSE II CDE "report" Engineering Units Conversion Cryo Diode Readouts (cont.)

EXAMPLE #2:

Issuing the 'report' command causes the CDE to return a hexadecimal value of 01A9 for data item #27 (temp diode 2 wide range (50K to 100K)).

$$t_volts = \{ \{ \text{HEX2DEC}(01A9) - 2048.5 \} * 0.004883 \} * (-0.030533) + 0.77891$$

$$t_volts = \{ \{ 425 - 2048.5 \} * 0.004883 \} * (-0.030533) + 0.77891$$

$$t_volts = 1.020962$$

$$temp = \text{LOOKUP}(1.020962, \text{SC10_VOLTS}, \text{SC10_TEMP}) + \frac{1.020962 - \text{LOOKUP}(1.020962, \text{SC10_VOLTS}, \text{SC10_VOLTS})}{0.001 * \text{LOOKUP}(1.020962, \text{SC10_VOLTS}, \text{SC10_dV_dT})}$$

$$temp = 80 + \frac{1.020962 - 1.01525}{0.001 * -1.93}$$

$$temp = 77.04K$$

Standard Curve #10

Temperature (K) (SC10_TEMP)	Cryo Diode Voltage (SC10_VOLTS)	dV/dT (mV/K) (SC10_dV_dT)	Temperature (K) (SC10_TEMP)	Cryo Diode Voltage (SC10_VOLTS)	dV/dT (mV/K) (SC10_dV_dT)
350	0.39783	-2.44	130	0.91243	-2.16
340	0.42221	-2.43	120	0.93383	-2.12
330	0.44647	-2.42	110	0.95487	-2.08
320	0.47069	-2.42	100	0.97550	-2.04
310	0.49484	-2.41	95	0.98564	-2.02
270	0.50980	-2.39	90	0.99565	-1.99
300	0.51892	-2.40	85	1.00552	-1.96
290	0.54294	-2.40	80	1.01525	-1.93
280	0.56690	-2.39	75	1.02482	-1.91
260	0.61465	-2.38	70	1.03425	-1.87
250	0.63841	-2.37	65	1.04353	-1.84
240	0.66208	-2.36	60	1.05267	-1.81
230	0.68564	-2.35	58	1.05629	-1.80
220	0.70908	-2.34	56	1.05988	-1.79
210	0.73238	-2.32	54	1.06346	-1.78
200	0.75554	-2.31	52	1.06700	-1.77
190	0.77855	-2.29	50	1.07053	-1.75
180	0.80138	-2.28	48	1.07402	-1.74
170	0.82404	-2.26	46	1.07748	-1.73
160	0.84650	-2.24	44	1.08093	-1.72
150	0.86873	-2.21	42	1.08436	-1.72
140	0.89072	-2.19	40	1.08781	-1.74

Note: Standard Curve #10 is taken from the Lake Shore Cryotronics, Inc. catalog.

HTSSE II CDE "ttemf" Command, Engineering Units Conversion

Setting the desired temperature (variable: temp) is accomplished by sending the ttemf <n> command to the CDE. The formula below is used to come up with the coefficient (n) to be sent:

$$\text{volts} = [t - \text{LOOKUP}(t, \text{SC10_T}, \text{SC10_T})] * 0.001 * \text{LOOKUP}(t, \text{SC10_T}, \text{SC10_dV_dT}) + \text{LOOKUP}(t, \text{SC10_T}, \text{SC10_V})$$

$$n = \text{INT}(\text{volts} * (-33470.5) + 36068.4)$$

The LOOKUP(t, lookup_vector, result_vector) function searches the table (Standard Curve #10) to find 't' in the lookup vector. 'lookup_vector' is the searched vector. 'Result_vector' is the value which is returned based on the search. If the LOOKUP() function can't find an exact match to 't', it shall match the largest value in 'lookup_vector' that is less than or equal to 't'.

The INT(n) function rounds a number down to the nearest integer.

EXAMPLE:

To set a temperature of 76.0 K using the 'ttemf <n>' command, the value of n shall be 1788 as determined below:

$$t = 77.00$$

$$\text{volts} = [77.00 - \text{LOOKUP}(77.00, \text{SC10_T}, \text{SC10_T})] * 0.001 * \text{LOOKUP}(77.00, \text{SC10_T}, \text{SC10_dV_dT}) + \text{LOOKUP}(77.00, \text{SC10_T}, \text{SC10_V})$$

$$\text{volts} = [77.00 - 75] * 0.001 * (-1.91) + 1.02482$$

$$\text{volts} = 1.021000$$

$$n = \text{INT}(1.021000 * (-33470.5) + 36068.4)$$

$$n = \text{INT}(1895.0195)$$

$$n = 1895$$

Standard Curve #10

Temperature (K) (SC10_T)	Cryo Diode Voltage (SC10_V)	dV/dT (mV/K) (SC10_dV_dT)	Temperature (K) (SC10_T)	Cryo Diode Voltage (SC10_V)	dV/dT (mV/K) (SC10_dV_dT)
350	0.39783	-2.44	130	0.91243	-2.16
340	0.42221	-2.43	120	0.93383	-2.12
330	0.44647	-2.42	110	0.95487	-2.08
320	0.47069	-2.42	100	0.97550	-2.04
310	0.49484	-2.41	95	0.98564	-2.02
270	0.50980	-2.39	90	0.99565	-1.99
300	0.51892	-2.40	85	1.00552	-1.96
290	0.54294	-2.40	80	1.01525	-1.93
280	0.56690	-2.39	75	1.02482	-1.91
260	0.61465	-2.38	70	1.03425	-1.87
250	0.63841	-2.37	65	1.04353	-1.84
240	0.66208	-2.36	60	1.05267	-1.81
230	0.68564	-2.35	58	1.05629	-1.80
220	0.70908	-2.34	56	1.05988	-1.79
210	0.73238	-2.32	54	1.06346	-1.78
200	0.75554	-2.31	52	1.06700	-1.77
190	0.77855	-2.29	50	1.07053	-1.75
180	0.80138	-2.28	48	1.07402	-1.74
170	0.82404	-2.26	46	1.07748	-1.73
160	0.84650	-2.24	44	1.08093	-1.72
150	0.86873	-2.21	42	1.08436	-1.72
140	0.89072	-2.19	40	1.08781	-1.74

Note: Standard Curve #10 is taken from the Lake Shore Cryotronics, Inc. catalog.

HTSSE II CDE "atem" Command, Engineering Units Conversion

The 'atem' command is used to determine the actual temperature sensed by the cryo diode. The 'atem' command responds in two different ways depending on the mode that the CDE is in. When in temperature control mode (mode 1) it includes compensation for any drift due to changes in temperature of the CDE, as well as averaging of the data to help reduce the effects of electrical noise. When in manual mode (mode 2) or cooler off mode (mode 0) it responds with the instantaneous reading of the cryo diode (no averaging, no drift compensation).

The atem command returns 'temperature' when in temperature control mode using the following algorithm:

$$\text{temperature} = [\text{TRUE_REFERENCE} - \text{AVERAGE}(\text{reference_reading})] + \text{AVERAGE}(\text{diode_reading})$$

The atem command returns 'temperature' when in manual or cooler off mode using the following algorithm:

$$\text{temperature} = \text{diode_reading}$$

Where:

reference_reading = the CDE internal temperature reference.

diode_reading = the cryo diode, one of two, determined by the 'tsrc <n>' command.

TRUE_REFERENCE = nominal reference value stored in ROM (the value is = 1648).

AVERAGE() = this function takes a 200 point running average.

Conversion from hexadecimal to temperature for the response to 'atem' uses the same formula as the 'report' command, narrow range cryo diode data.

$$t_volts = \{[\text{HEX2DEC}(\text{hex_value}) - 2048.5] * 0.004883\} * (-0.006119) + 1.02132$$

$$\text{temp} = \text{LOOKUP}(t_volts, \text{SC10_VOLTS}, \text{SC10_TEMP}) + \frac{t_volts - \text{LOOKUP}(t_volts, \text{SC10_VOLTS}, \text{SC10_VOLTS})}{0.001 * \text{LOOKUP}(t_volts, \text{SC10_VOLTS}, \text{SC10_dV_dT})}$$

The HEX2DEC(hex_value) function converts a hexadecimal number to decimal. 'Hex_value' is the parameter to be converted to a temperature.

The LOOKUP(t_volts, lookup_vector, result_vector) function searches the table (Standard Curve #10) to find 't_volts' in the lookup vector. 'Lookup_vector' is the searched vector. 'Result_vector' is the vector which is returned based on the search. If the LOOKUP() function can't find an exact match to 't_volts', it shall match the largest value in 'lookup_vector' that is less than or equal to 't_volts'.

EXAMPLE:

Issuing the 'atem' command causes the CDE to return a hexadecimal value of 080D:

$$t_volts = \{[\text{HEX2DEC}(080D) - 2048.5] * 0.004883\} * (-0.006119) + 1.02132$$

$$t_volts = \{[2061 - 2048.5] * 0.004883\} * (-0.006119) + 1.02132$$

$$t_volts = 1.02095$$

$$\text{temp} = \text{LOOKUP}(1.02095, \text{SC10_VOLTS}, \text{SC10_TEMP}) + \frac{1.02095 - \text{LOOKUP}(1.02095, \text{SC10_VOLTS}, \text{SC10_VOLTS})}{0.001 * \text{LOOKUP}(1.02095, \text{SC10_VOLTS}, \text{SC10_dV_dT})}$$

$$\text{temp} = 80 + \frac{1.02095 - 1.01525}{0.001 * -1.93}$$

$$\text{temp} = 77.05K$$

MOPITT EQM CDE Default Operating Parameters

- 1) Operating mode (**mode** 0, Cooler off)
- 2) Vibration control mode (**vcm** 1, P-DECS)
- 3) Target temperature (**ttemf** 3278, Nominal 96.0 K)
- 4) Temperature control loop proportional gain (**setP** 32767, proportional gain = 1)
- 5) Temperature control loop integral gain (**setI** 1024, integral gain = 0.031)
- 6) Temperature control loop derivative gain (**setD** 512, derivative gain = 0.016)
- 7) Temperature control loop integrator limit (**ilim** 3000, integrator limit = 3000)
- 8) Compressor A stroke bias (**bias** 0 0, 0.00 mm)
Compressor B stroke bias (**bias** 0 2, 0.00 mm)
- 9) Displacer A stroke bias (**bias** 0 1, 0.00 mm)
Displacer B stroke bias (**bias** 0 3, 0.00 mm)
- 10) Compressor A stroke amplitude (**amp** 525 0, 5.127 mm)
Compressor B stroke amplitude (**amp** 525 2, 5.127 mm)
- 11) Displacer A stroke amplitude (**amp** 266 1, 2.598 mm)
Displacer B stroke amplitude (**amp** 266 3, 2.598 mm)
- 12) Compressor A stroke negative limit (**wmin** -716 0, -3.50 mm)
Compressor B stroke negative limit (**wmin** -716 2, -3.50 mm)
- 13) Displacer A stroke negative limit (**wmin** -357 1, -1.75 mm)
Displacer B stroke negative limit (**wmin** -357 3, -1.75 mm)
- 14) Compressor A stroke positive limit (**wamx** 717 0, 3.50 mm)
Compressor B stroke positive limit (**wamx** 717 2, 3.50 mm)
- 15) Displacer A stroke positive limit (**wmax** 358 1, 1.75 mm)
Displacer B stroke positive limit (**wmax** 358 3, 1.75 mm)
- 16) Phase relationship A compressor to A displacer: (**phase** 4787 1, 66.962 degrees)
Phase relationship B compressor to B displacer: (**phase** 4787 3, 66.962 degrees)
- 17) Diode for temperature control (**tsrc** 2, diode on cooler A, S/N: BR06848)
- 18) Cooler operating frequency (**spc** 241, = 43.955 Hz)
- 19) Compressor A Position DECS (P-DECS) gain (**dgain** 1 0, gain = 0.5)
Compressor B Position DECS (P-DECS) gain (**dgain** 1 2, gain = 0.5)
- 20) Displacer A Position DECS (P-DECS) gain (**dgain** 1 1, gain = 0.5)
Displacer B Position DECS (P-DECS) gain (**dgain** 1 3, gain = 0.5)

(MOPITT Default Operating Parameters continued on page 29)

(MOPITT Default Operating Parameters continued from page 28)

- 21) Compressor A Position DECS (P-DECS) shift (**dshif 27 0**, shift = 27)
Compressor B Position DECS (P-DECS) shift (**dshif 27 2**, shift = 27)
- 22) Displacer A Position DECS (P-DECS) shift (**dshif 27 1**, shift = 27)
Displacer B Position DECS (P-DECS) shift (**dshif 27 3**, shift = 27)
- 23) Position DECS (P-DECS) bias scale (**dbisc1 7642**, gain =TBD)

MOPITT FM CDE Default Operating Parameters

- 1) Operating mode (mode 0, cooler "off")
- 2) Vibration control mode (vcm 2, Acceleration Digital Error Correction System (A-DECS))
- 3) Target temperature (ttempf 3278, ≈ 96 deg K)
- 4) Temperature control loop proportional gain (setP 32767, proportional gain = 1.0)
- 5) Temperature control loop integral gain (setI 1024, integral gain = 0.031)
- 6) Temperature control loop derivative gain (setD 512, derivative gain = 0.016)
- 7) Temperature control loop integrator limit (i1im 3000, integrator limit = 3000)
- 8) Compressor A stroke bias (bias 0 0, 0.00 mm)
Compressor B stroke bias (bias 0 2, 0.00 mm)
- 9) Displacer A stroke bias (bias 0 1, 0.00 mm)
Displacer B stroke bias (bias 0 3, 0.00 mm)
- 10) Compressor A stroke amplitude (amp 545 0, 5.322 mm)
Compressor B stroke amplitude (amp 575 2, 5.615 mm)
- 11) Displacer A stroke amplitude (amp 276 1, 2.695 mm)
Displacer B stroke amplitude (amp 307 3, 2.998 mm)
- 12) Compressor A stroke negative limit (wmin -740 0, 7.227 mm)
Compressor B stroke negative limit (wmin -740 2, 7.227 mm)
- 13) Displacer A stroke negative limit (wmin -307 1, 2.998 mm)
Displacer B stroke negative limit (wmin -307 3, 2.998 mm)
- 14) Compressor A stroke positive limit (wmax 741 0, 7.227 mm)
Compressor B stroke positive limit (wmax 741 2, 7.227 mm)
- 15) Displacer A stroke positive limit (wmax 308 1, 2.998 mm)
Displacer B stroke positive limit (wmax 308 3, 2.998 mm)
- 16) Phase relationship between the compressor A and displacer A (phase 4003 1, 56.0 degrees)
Phase relationship between the compressor B and displacer B (phase 4003 3, 56.0 degrees)
- 17) Diode for temperature control (tsrc 2, diode at the thermal interface)
- 18) Cooler operating frequency (spc 241, ≈ 43.96 Hz)
- 19) Compressor A Position DECS (P-DECS) gain (dgain 0 0, gain = 1)
Compressor B Position DECS (P-DECS) gain (dgain 0 2, gain = 1)
- 20) Displacer A Position DECS (P-DECS) gain (dgain 0 1, gain = 1)
Displacer B Position DECS (P-DECS) gain (dgain 0 3, gain = 1)
- 21) Compressor A Position DECS (P-DECS) shift (dshif 30 0, shift = 30)
Compressor B Position DECS (P-DECS) shift (dshif 30 2, shift = 30)
- 22) Displacer A Position DECS (P-DECS) shift (dshif 27 1, shift = 27)
Displacer B Position DECS (P-DECS) shift (dshif 27 3, shift = 27)
- 23) Compressor A Acceleration DECS (A-DECS) gain (dgain 1 0, gain = 1/2)
Compressor B Acceleration DECS (A-DECS) gain (dgain 2 2, gain = 1/4)
- 24) Displacer A Acceleration DECS (A-DECS) gain (dgain 1 1, gain = 1/2)
Displacer B Acceleration DECS (A-DECS) gain (dgain 5 3, gain = 1/32)

- 25) Compressor A Acceleration DECS (A-DECS) shift (**dshif** 27 0, shift = 27)
Compressor B Acceleration DECS (A-DECS) shift (**dshif** 26 2, shift = 26)
- 26) Displacer A Acceleration DECS (A-DECS) shift (**dshif** 30 1, shift = 30)
Displacer B Acceleration DECS (A-DECS) shift (**dshif** 26 3, shift = 26)

27) DECS bias scale (**dbisc1** 7642, gain = 0.117)

APPENDIX E

TEST PACKET CONTENTS

MOPITT Instrument Test Packet Contents
(ICM Software v.7.5)

Address -----Data-----
(nybble)

```

00000000 18c2 c04d 1df0 389b 04bf 4b17 0000 80c2
00000020 4d4f 5049 5454 2049 6e73 7472 756d 656e
00000040 7420 2d20 5465 7374 2050 6163 6b65 7400
00000060 4361 6e61 6469 616e 2053 7061 6365 2041
00000100 6765 6e63 7920 2d20 434f 4d20 4445 5620
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