

ATC Cabinet Monitor Unit (CMU) Certification Test Report

CMU INFORMATION

Model : CMU2212-HV
Manufacturer : XYZ
Serial Number : 123456-ABC
Agency : MyDOT
Location : Signal Shop
Tested By : John Doe
Note1 : Yearly Certification Test
Note2 :

TESTER INFORMATION

Model : ACMT-5000
Serial Number : 5000-9998
Firmware Version : 5
Software Version : ACMT-5000 Test Manager v1.3
Manufacturer : ATSI

Testing Started: Feb 24 2021 02:52 pm

CMU Memory Key = ATSI test key v1

SB#1 Valid Response Test

- CMU SB#1 Address set to 0x0F
- CMU is powered down
- CMU is powered up and reset in the No Fault state
- Valid Type 67 Command Frames were sent to CMU
- Valid Type 195 Response Frames were received from CMU
- Result = Pass

SB#1 Invalid CRC Test

- CMU SB#1 Address set to 0x0F
- CMU is powered down
- CMU is powered up and reset in the No Fault state
- Type 67 Command Frames were sent to CMU with invalid CRC
- No Type 195 Response Frames were received from CMU
- Result = Pass

SB#1 Invalid Address Test

- CMU SB#1 Address set to 0x0F
- CMU is powered down

- CMU is powered up and reset in the No Fault state
- Type 67 Command Frames were sent to CMU with invalid address
- No Type 195 Response Frames were received from CMU
- Result = Pass

- CMU SB#1 Address set to 0x10
- CMU is powered down
- CMU is powered up and reset in the No Fault state
- Type 67 Command Frames were sent to CMU with invalid address
- No Type 195 Response Frames were received from CMU
- Result = Pass

- CMU SB#1 Address set to 0x11
- CMU is powered down
- CMU is powered up and reset in the No Fault state
- Type 67 Command Frames were sent to CMU with invalid address
- No Type 195 Response Frames were received from CMU
- Result = Pass

- CMU SB#1 Address set to 0x12
- CMU is powered down
- CMU is powered up and reset in the No Fault state
- Type 67 Command Frames were sent to CMU with invalid address
- No Type 195 Response Frames were received from CMU
- Result = Pass

SB#1 Type 62 Send to Local Flash (Latch) Test

- CMU SB#1 Address set to 0x0F
- CMU is powered down
- CMU is powered up and reset in the No Fault state
- Type 62 and 67 Command Frames were sent to CMU for 5 sec
- All fault bits were cleared in the Type 62 Frames
- CMU output relay state = No Fault
- Type 62 and 67 Command Frames were sent to CMU for 5 sec
- The LFSA bit was set in the Type 62 Frames
- CMU output relay state = Fault
- Type 62 and 67 Command Frames were sent to CMU for 10 sec
- All fault bits were cleared in the Type 62 Frames
- CMU output relay state = Fault
- Result = Pass

SB#1 Type 62 Send to Local Flash (Non-Latch) Test

- CMU SB#1 Address set to 0x0F
- CMU is powered down

- CMU is powered up and reset in the No Fault state
- Type 62 and 67 Command Frames were sent to CMU for 5 sec
- All fault bits were cleared in the Type 62 Frames
- CMU output relay state = No Fault
- Type 62 and 67 Command Frames were sent to CMU for 5 sec
- The NFSA bit was set in the Type 62 Frames
- CMU output relay state = Fault
- Type 62 and 67 Command Frames were sent to CMU
- All fault bits were cleared in the Type 62 Frames
- CMU output relay state = No Fault
- Result = Pass

Local Flash Status Fault Test

- CMU is powered up and reset in the No Fault state
- LF Status is set to 48 Vdc
- LF Status is set to 38 Vdc for 433ms
- LF Status is set to 48 Vdc
- After 100ms delay, CMU output relay state is read
- CMU output relay state = Fault
- Result = Pass

Local Flash Status No Fault Test

- CMU is powered up and reset in the No Fault state
- LF Status is set to 48 Vdc
- LF Status is set to 38 Vdc for 190ms
- LF Status is set to 48 Vdc
- After 100ms delay, CMU output relay state is read
- CMU output relay state = No Fault
- Result = Pass

CB Trip Status Fault Test

- CMU is powered up and reset in the No Fault state
- CB Trip Status is set to 48 Vdc
- CB Trip Status is set to 38 Vdc for 433ms
- CB Trip Status is set to 48 Vdc
- After 100ms delay, CMU output relay state is read
- CMU output relay state = Fault
- Result = Pass

CB Trip Status No Fault Test

- CMU is powered up and reset in the No Fault state
- CB Trip Status is set to 48 Vdc

- CB Trip Status is set to 38 Vdc for 190ms
- CB Trip Status is set to 48 Vdc
- After 100ms delay, CMU output relay state is read
- CMU output relay state = No Fault
- Result = Pass

MC Coil Status Test

- CMU is powered up and reset in the No Fault state
- MC Coil Status is set to 38 Vdc
- Type 1 command frames received from the CMU for HDSP1-16
- Type 129 response frames sent for 3 sec with all signals set to 0 Vrms
- CMU output relay state = No Fault
- Result = Pass

MC Secondary Status Test

- CMU is powered up and reset in the No Fault state
- CMU SB#1 Address set to 0x0F
- MC Secondary Status input set to 90 Vrms
- Type 67 Command Frames were sent to CMU
- Type 195 Response Frames from CMU indicate MC Secondary is active
- MC Secondary Status input is set to 69 Vrms
- Type 67 Command Frames were sent to CMU
- Type 195 Response Frames from CMU indicate MC Secondary not active
- Result = Pass

FTR Coil Status Test

- CMU is powered up and reset in the No Fault state
- CMU SB#1 Address set to 0x0F
- FTR Coil Status input set to 48 Vdc
- Type 67 Command Frames were sent to CMU
- Type 195 Response Frames from CMU indicate FTR Coil is active
- FTR Coil Status input is set to 38 Vdc
- Type 67 Command Frames were sent to CMU
- Type 195 Response Frames from CMU indicate FTR Coil not active
- Result = Pass

Door Switch Front Input Test

- CMU is powered up and reset in the No Fault state
- CMU SB#1 Address set to 0x0F
- Door Switch Front input set to 15 Vdc
- Type 67 Command Frames were sent to CMU
- Type 195 Response Frames from CMU indicate Door Switch Front is active

- Door Switch Front input is set to 9 Vdc
- Type 67 Command Frames were sent to CMU
- Type 195 Response Frames from CMU indicate Door Switch Front not active
- Result = Pass

Door Switch Rear Input Test

- CMU is powered up and reset in the No Fault state
- CMU SB#1 Address set to 0x0F
- Door Switch Rear input set to 15 Vdc
- Type 67 Command Frames were sent to CMU
- Type 195 Response Frames from CMU indicate Door Switch Rear is active
- Door Switch Rear input is set to 9 Vdc
- Type 67 Command Frames were sent to CMU
- Type 195 Response Frames from CMU indicate Door Switch Rear not active
- Result = Pass

GRN Conflict Detect Test

- CMU is powered up and reset in the No Fault state
- Type 1 command frames received from the CMU for HDSP1-16
- Type 129 response frames sent with the following data for 500ms:

```
Channel 1-16      Channel 17-32
..RRRRRRRRRRRRR RRRRRRRRRRRRRR  R = 26 Vrms, . = 0 Vrms
.....          .....          Y = 26 Vrms, . = 0 Vrms
GG.....          .....          G = 26 Vrms, . = 0 Vrms
```

- CMU output relay state = Fault
- Result = Pass

- CMU is powered up and reset in the No Fault state
- Type 1 command frames received from the CMU for HDSP1-16
- Type 129 response frames sent with the following data for 500ms:

```
Channel 1-16      Channel 17-32
..RRRRRRRRRRRRR RRRRRRRRRRRRRR  R = 26 Vrms, . = 0 Vrms
.....          .....          Y = 26 Vrms, . = 0 Vrms
GG.....          .....          G = 26 Vrms, . = 0 Vrms
```

- CMU output relay state = Fault
- Result = Pass

- CMU is powered up and reset in the No Fault state
- Type 1 command frames received from the CMU for HDSP1-16
- Type 129 response frames sent with the following data for 500ms:

```
Channel 1-16      Channel 17-32
.R.RRRRRRRRRRRR RRRRRRRRRRRRRR  R = 26 Vrms, . = 0 Vrms
.....          .....          Y = 26 Vrms, . = 0 Vrms
G.G.....          .....          G = 26 Vrms, . = 0 Vrms
```

- CMU output relay state = Fault
- Result = Pass

- CMU is powered up and reset in the No Fault state
- Type 1 command frames received from the CMU for HDSP1-16
- Type 129 response frames sent with the following data for 500ms:

```
Channel 1-16      Channel 17-32
.RR.RRRRRRRRRRRR RRRRRRRRRRRRRR  R = 26 Vrms, . = 0 Vrms
.....          .....          Y = 26 Vrms, . = 0 Vrms
G..G.....          .....          G = 26 Vrms, . = 0 Vrms
```

- CMU output relay state = Fault
- Result = Pass

- CMU is powered up and reset in the No Fault state
- Type 1 command frames received from the CMU for HDSP1-16
- Type 129 response frames sent with the following data for 500ms:

```
Channel 1-16      Channel 17-32
.RRR.RRRRRRRRRRR RRRRRRRRRRRRRR  R = 26 Vrms, . = 0 Vrms
.....          .....          Y = 26 Vrms, . = 0 Vrms
G...G.....          .....          G = 26 Vrms, . = 0 Vrms
```

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- Result = Pass

- CMU is powered up and reset in the No Fault state
- Type 1 command frames received from the CMU for HDSP1-16
- Type 129 response frames sent with the following data for 500ms:

```
Channel 1-16      Channel 17-32
.RRRR.RRRRRRRRRR RRRRRRRRRRRRRR  R = 26 Vrms, . = 0 Vrms
.....          .....          Y = 26 Vrms, . = 0 Vrms
G....G.....          .....          G = 26 Vrms, . = 0 Vrms
```

- CMU output relay state = Fault
- Result = Pass

- CMU is powered up and reset in the No Fault state

- Type 1 command frames received from the CMU for HDSP1-16
- Type 129 response frames sent with the following data for 500ms:

```

Channel 1-16      Channel 17-32
.RRRRR.RRRRRRRR RRRRRRRRRRRRRR  R = 26 Vrms, . = 0 Vrms
.....          .....          Y = 26 Vrms, . = 0 Vrms
G.....G.....    .....          G = 26 Vrms, . = 0 Vrms

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- CMU is powered up and reset in the No Fault state
- Type 1 command frames received from the CMU for HDSP1-16
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Channel 1-16      Channel 17-32
.RRRRR.RRRRRRRR RRRRRRRRRRRRRR  R = 26 Vrms, . = 0 Vrms
.....          .....          Y = 26 Vrms, . = 0 Vrms
G.....G.....    .....          G = 26 Vrms, . = 0 Vrms

```

- CMU output relay state = Fault
- Result = Pass

- CMU is powered up and reset in the No Fault state
- Type 1 command frames received from the CMU for HDSP1-16
- Type 129 response frames sent with the following data for 500ms:

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Channel 1-16      Channel 17-32
.RRRRRRR.RRRRRRR RRRRRRRRRRRRRR  R = 26 Vrms, . = 0 Vrms
.....          .....          Y = 26 Vrms, . = 0 Vrms
G.....G.....    .....          G = 26 Vrms, . = 0 Vrms

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- Result = Pass

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- Type 1 command frames received from the CMU for HDSP1-16
- Type 129 response frames sent with the following data for 500ms:

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Channel 1-16      Channel 17-32
.RRRRRRRR.RRRRRR RRRRRRRRRRRRRR  R = 26 Vrms, . = 0 Vrms
.....          .....          Y = 26 Vrms, . = 0 Vrms
G.....G.....    .....          G = 26 Vrms, . = 0 Vrms

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G.....G.....    .....          G = 26 Vrms, . = 0 Vrms

```

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Channel 1-16      Channel 17-32
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G.....G.....    .....          G = 26 Vrms, . = 0 Vrms

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- Type 1 command frames received from the CMU for HDSP1-16
- Type 129 response frames sent with the following data for 500ms:

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Channel 1-16      Channel 17-32
.RRRRRRRRRRRR.RRR RRRRRRRRRRRRRR  R = 26 Vrms, . = 0 Vrms
.....          .....          Y = 26 Vrms, . = 0 Vrms
G.....G.....    .....          G = 26 Vrms, . = 0 Vrms

```

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- Type 1 command frames received from the CMU for HDSP1-16
- Type 129 response frames sent with the following data for 500ms:

```

Channel 1-16      Channel 17-32
.RRRRRRRRRRRR.RR RRRRRRRRRRRRRR  R = 26 Vrms, . = 0 Vrms
.....          .....          Y = 26 Vrms, . = 0 Vrms
G.....G.....    .....          G = 26 Vrms, . = 0 Vrms

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- Type 129 response frames sent with the following data for 500ms:

Channel 1-16	Channel 17-32	
.RRRRRRRRRRRRRR.R	RRRRRRRRRRRRRRRR	R = 26 Vrms, . = 0 Vrms
.....	Y = 26 Vrms, . = 0 Vrms
G.....G.	G = 26 Vrms, . = 0 Vrms

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- Type 1 command frames received from the CMU for HDSP1-16
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Channel 1-16	Channel 17-32	
.RRRRRRRRRRRRRR.R	RRRRRRRRRRRRRRRR	R = 26 Vrms, . = 0 Vrms
.....	Y = 26 Vrms, . = 0 Vrms
G.....G	G = 26 Vrms, . = 0 Vrms

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Channel 1-16	Channel 17-32	
.RRRRRRRRRRRRRR.R	RRRRRRRRRRRRRRRR	R = 26 Vrms, . = 0 Vrms
.....	Y = 26 Vrms, . = 0 Vrms
G.....G	G = 26 Vrms, . = 0 Vrms

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Channel 1-16	Channel 17-32	
.RRRRRRRRRRRRRR.R	RRRRRRRRRRRRRRRR	R = 26 Vrms, . = 0 Vrms
.....	Y = 26 Vrms, . = 0 Vrms

G..... .G..... G = 26 Vrms, . = 0 Vrms

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- Type 1 command frames received from the CMU for HDSP1-16
- Type 129 response frames sent with the following data for 500ms:

Channel 1-16	Channel 17-32	
.RRRRRRRRRRRRRR.R	RR.RRRRRRRRRRRRR	R = 26 Vrms, . = 0 Vrms
.....	Y = 26 Vrms, . = 0 Vrms
G.....G.	G = 26 Vrms, . = 0 Vrms

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- Type 129 response frames sent with the following data for 500ms:

Channel 1-16	Channel 17-32	
.RRRRRRRRRRRRRR.R	RRR.RRRRRRRRRRRRR	R = 26 Vrms, . = 0 Vrms
.....	Y = 26 Vrms, . = 0 Vrms
G.....G	G = 26 Vrms, . = 0 Vrms

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- Type 1 command frames received from the CMU for HDSP1-16
- Type 129 response frames sent with the following data for 500ms:

Channel 1-16	Channel 17-32	
.RRRRRRRRRRRRRR.R	RRRR.RRRRRRRRRRRRR	R = 26 Vrms, . = 0 Vrms
.....	Y = 26 Vrms, . = 0 Vrms
G.....G	G = 26 Vrms, . = 0 Vrms

- CMU output relay state = Fault
- Result = Pass

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- Type 1 command frames received from the CMU for HDSP1-16
- Type 129 response frames sent with the following data for 500ms:

Channel 1-16	Channel 17-32
--------------	---------------

```
.RRRRRRRRRRRRRRRR RRRRR.RRRRRRRRRR R = 26 Vrms, . = 0 Vrms
..... Y = 26 Vrms, . = 0 Vrms
G.....G..... G = 26 Vrms, . = 0 Vrms
```

- CMU output relay state = Fault
- Result = Pass

- CMU is powered up and reset in the No Fault state
- Type 1 command frames received from the CMU for HDSP1-16
- Type 129 response frames sent with the following data for 500ms:

```
Channel 1-16      Channel 17-32
.RRRRRRRRRRRRRRR RRRRRR.RRRRRRRRRR R = 26 Vrms, . = 0 Vrms
..... Y = 26 Vrms, . = 0 Vrms
G.....G..... G = 26 Vrms, . = 0 Vrms
```

- CMU output relay state = Fault
- Result = Pass

- CMU is powered up and reset in the No Fault state
- Type 1 command frames received from the CMU for HDSP1-16
- Type 129 response frames sent with the following data for 500ms:

```
Channel 1-16      Channel 17-32
.RRRRRRRRRRRRRRR RRRRRR.RRRRRRRRRR R = 26 Vrms, . = 0 Vrms
..... Y = 26 Vrms, . = 0 Vrms
G.....G..... G = 26 Vrms, . = 0 Vrms
```

- CMU output relay state = Fault
- Result = Pass

- CMU is powered up and reset in the No Fault state
- Type 1 command frames received from the CMU for HDSP1-16
- Type 129 response frames sent with the following data for 500ms:

```
Channel 1-16      Channel 17-32
.RRRRRRRRRRRRRRR RRRRRR.RRRRRRRRRR R = 26 Vrms, . = 0 Vrms
..... Y = 26 Vrms, . = 0 Vrms
G.....G..... G = 26 Vrms, . = 0 Vrms
```

- CMU output relay state = Fault
- Result = Pass

- CMU is powered up and reset in the No Fault state
- Type 1 command frames received from the CMU for HDSP1-16
- Type 129 response frames sent with the following data for 500ms:

```
Channel 1-16      Channel 17-32
.RRRRRRRRRRRRRRR RRRRRR.RRRRRRRRRR R = 26 Vrms, . = 0 Vrms
..... Y = 26 Vrms, . = 0 Vrms
G.....G..... G = 26 Vrms, . = 0 Vrms
```

- CMU output relay state = Fault
- Result = Pass

- CMU is powered up and reset in the No Fault state
- Type 1 command frames received from the CMU for HDSP1-16
- Type 129 response frames sent with the following data for 500ms:

```
Channel 1-16      Channel 17-32
.RRRRRRRRRRRRRRR RRRRRR.RRRRRRRRRR R = 26 Vrms, . = 0 Vrms
..... Y = 26 Vrms, . = 0 Vrms
G.....G..... G = 26 Vrms, . = 0 Vrms
```

- CMU output relay state = Fault
- Result = Pass

- CMU is powered up and reset in the No Fault state
- Type 1 command frames received from the CMU for HDSP1-16
- Type 129 response frames sent with the following data for 500ms:

```
Channel 1-16      Channel 17-32
.RRRRRRRRRRRRRRR RRRRRR.RRRRRRRRRR R = 26 Vrms, . = 0 Vrms
..... Y = 26 Vrms, . = 0 Vrms
G.....G..... G = 26 Vrms, . = 0 Vrms
```

- CMU output relay state = Fault
- Result = Pass

- CMU is powered up and reset in the No Fault state
- Type 1 command frames received from the CMU for HDSP1-16
- Type 129 response frames sent with the following data for 500ms:

```
Channel 1-16      Channel 17-32
.RRRRRRRRRRRRRRR RRRRRR.RRRRRRRRRR R = 26 Vrms, . = 0 Vrms
..... Y = 26 Vrms, . = 0 Vrms
G.....G..... G = 26 Vrms, . = 0 Vrms
```

- CMU output relay state = Fault
- Result = Pass

- CMU is powered up and reset in the No Fault state

- Type 1 command frames received from the CMU for HDSP1-16
- Type 129 response frames sent with the following data for 500ms:

```

Channel 1-16      Channel 17-32
.RRRRRRRRRRRRRR RRRRRRRRRRRRR.RR  R = 26 Vrms, . = 0 Vrms
.....           .....           Y = 26 Vrms, . = 0 Vrms
G.....           .....           G = 26 Vrms, . = 0 Vrms

```

- CMU output relay state = Fault
- Result = Pass

- CMU is powered up and reset in the No Fault state
- Type 1 command frames received from the CMU for HDSP1-16
- Type 129 response frames sent with the following data for 500ms:

```

Channel 1-16      Channel 17-32
.RRRRRRRRRRRRRR RRRRRRRRRRRRR.R  R = 26 Vrms, . = 0 Vrms
.....           .....           Y = 26 Vrms, . = 0 Vrms
G.....           .....           G = 26 Vrms, . = 0 Vrms

```

- CMU output relay state = Fault
- Result = Pass

- CMU is powered up and reset in the No Fault state
- Type 1 command frames received from the CMU for HDSP1-16
- Type 129 response frames sent with the following data for 500ms:

```

Channel 1-16      Channel 17-32
.RRRRRRRRRRRRRR RRRRRRRRRRRRRR.  R = 26 Vrms, . = 0 Vrms
.....           .....           Y = 26 Vrms, . = 0 Vrms
G.....           .....           G = 26 Vrms, . = 0 Vrms

```

- CMU output relay state = Fault
- Result = Pass

YEL Conflict Detect Test

- CMU is powered up and reset in the No Fault state
- Type 1 command frames received from the CMU for HDSP1-16
- Type 129 response frames sent with the following data for 500ms:

```

Channel 1-16      Channel 17-32
..RRRRRRRRRRRRR RRRRRRRRRRRRRRR  R = 26 Vrms, . = 0 Vrms
YY.....           .....           Y = 26 Vrms, . = 0 Vrms
.....           .....           G = 26 Vrms, . = 0 Vrms

```

- CMU output relay state = Fault
- Result = Pass

- CMU is powered up and reset in the No Fault state
- Type 1 command frames received from the CMU for HDSP1-16
- Type 129 response frames sent with the following data for 500ms:

```

Channel 1-16      Channel 17-32
..RRRRRRRRRRRRR RRRRRRRRRRRRRRR  R = 26 Vrms, . = 0 Vrms
YY.....           .....           Y = 26 Vrms, . = 0 Vrms
.....           .....           G = 26 Vrms, . = 0 Vrms

```

- CMU output relay state = Fault
- Result = Pass

- CMU is powered up and reset in the No Fault state
- Type 1 command frames received from the CMU for HDSP1-16
- Type 129 response frames sent with the following data for 500ms:

```

Channel 1-16      Channel 17-32
.R.RRRRRRRRRRRR RRRRRRRRRRRRRRR  R = 26 Vrms, . = 0 Vrms
Y.Y.....           .....           Y = 26 Vrms, . = 0 Vrms
.....           .....           G = 26 Vrms, . = 0 Vrms

```

- CMU output relay state = Fault
- Result = Pass

- CMU is powered up and reset in the No Fault state
- Type 1 command frames received from the CMU for HDSP1-16
- Type 129 response frames sent with the following data for 500ms:

```

Channel 1-16      Channel 17-32
..RR.RRRRRRRRRR RRRRRRRRRRRRRRR  R = 26 Vrms, . = 0 Vrms
Y..Y.....           .....           Y = 26 Vrms, . = 0 Vrms
.....           .....           G = 26 Vrms, . = 0 Vrms

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- CMU output relay state = Fault
- Result = Pass

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- Type 1 command frames received from the CMU for HDSP1-16
- Type 129 response frames sent with the following data for 500ms:

```

Channel 1-16      Channel 17-32
.RRR.RRRRRRRRRR RRRRRRRRRRRRRRR  R = 26 Vrms, . = 0 Vrms
Y...Y.....           .....           Y = 26 Vrms, . = 0 Vrms

```

..... G = 26 Vrms, . = 0 Vrms
- CMU output relay state = Fault
- Result = Pass

- CMU is powered up and reset in the No Fault state
- Type 1 command frames received from the CMU for HDSP1-16
- Type 129 response frames sent with the following data for 500ms:

Channel 1-16	Channel 17-32	
.RRRR.RRRRRRRRRR	RRRRRRRRRRRRRRRR	R = 26 Vrms, . = 0 Vrms
Y....Y.....	Y = 26 Vrms, . = 0 Vrms
.....	G = 26 Vrms, . = 0 Vrms

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- Result = Pass

- CMU is powered up and reset in the No Fault state
- Type 1 command frames received from the CMU for HDSP1-16
- Type 129 response frames sent with the following data for 500ms:

Channel 1-16	Channel 17-32	
.RRRR.RRRRRRRRRR	RRRRRRRRRRRRRRRR	R = 26 Vrms, . = 0 Vrms
Y....Y.....	Y = 26 Vrms, . = 0 Vrms
.....	G = 26 Vrms, . = 0 Vrms

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- Result = Pass

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- Type 1 command frames received from the CMU for HDSP1-16
- Type 129 response frames sent with the following data for 500ms:

Channel 1-16	Channel 17-32	
.RRRR.RRRRRRRRRR	RRRRRRRRRRRRRRRR	R = 26 Vrms, . = 0 Vrms
Y....Y.....	Y = 26 Vrms, . = 0 Vrms
.....	G = 26 Vrms, . = 0 Vrms

- CMU output relay state = Fault
- Result = Pass

- CMU is powered up and reset in the No Fault state
- Type 1 command frames received from the CMU for HDSP1-16
- Type 129 response frames sent with the following data for 500ms:

Channel 1-16	Channel 17-32
--------------	---------------

.RRRRRRR.RRRRRRRR	RRRRRRRRRRRRRRRR	R = 26 Vrms, . = 0 Vrms
Y.....Y.....	Y = 26 Vrms, . = 0 Vrms
.....	G = 26 Vrms, . = 0 Vrms

- CMU output relay state = Fault
- Result = Pass

- CMU is powered up and reset in the No Fault state
- Type 1 command frames received from the CMU for HDSP1-16
- Type 129 response frames sent with the following data for 500ms:

Channel 1-16	Channel 17-32	
.RRRRRRRRR.RRRRRR	RRRRRRRRRRRRRRRR	R = 26 Vrms, . = 0 Vrms
Y.....Y.....	Y = 26 Vrms, . = 0 Vrms
.....	G = 26 Vrms, . = 0 Vrms

- CMU output relay state = Fault
- Result = Pass

- CMU is powered up and reset in the No Fault state
- Type 1 command frames received from the CMU for HDSP1-16
- Type 129 response frames sent with the following data for 500ms:

Channel 1-16	Channel 17-32	
.RRRRRRRRRR.RRRRR	RRRRRRRRRRRRRRRR	R = 26 Vrms, . = 0 Vrms
Y.....Y.....	Y = 26 Vrms, . = 0 Vrms
.....	G = 26 Vrms, . = 0 Vrms

- CMU output relay state = Fault
- Result = Pass

- CMU is powered up and reset in the No Fault state
- Type 1 command frames received from the CMU for HDSP1-16
- Type 129 response frames sent with the following data for 500ms:

Channel 1-16	Channel 17-32	
.RRRRRRRRRR.RRRRR	RRRRRRRRRRRRRRRR	R = 26 Vrms, . = 0 Vrms
Y.....Y.....	Y = 26 Vrms, . = 0 Vrms
.....	G = 26 Vrms, . = 0 Vrms

- CMU output relay state = Fault
- Result = Pass

- CMU is powered up and reset in the No Fault state
- Type 1 command frames received from the CMU for HDSP1-16
- Type 129 response frames sent with the following data for 500ms:

Channel 1-16 Channel 17-32
.RRRRRRRRRRR.RRR RRRRRRRRRRRRRRRR R = 26 Vrms, . = 0 Vrms
Y.....Y... .. Y = 26 Vrms, . = 0 Vrms
..... G = 26 Vrms, . = 0 Vrms

- CMU output relay state = Fault
- Result = Pass

- CMU is powered up and reset in the No Fault state
- Type 1 command frames received from the CMU for HDSP1-16
- Type 129 response frames sent with the following data for 500ms:

Channel 1-16 Channel 17-32
.RRRRRRRRRRR.RR RRRRRRRRRRRRRRRR R = 26 Vrms, . = 0 Vrms
Y.....Y.. .. Y = 26 Vrms, . = 0 Vrms
..... G = 26 Vrms, . = 0 Vrms

- CMU output relay state = Fault
- Result = Pass

- CMU is powered up and reset in the No Fault state
- Type 1 command frames received from the CMU for HDSP1-16
- Type 129 response frames sent with the following data for 500ms:

Channel 1-16 Channel 17-32
.RRRRRRRRRRRRR.R RRRRRRRRRRRRRRRR R = 26 Vrms, . = 0 Vrms
Y.....Y. Y = 26 Vrms, . = 0 Vrms
..... G = 26 Vrms, . = 0 Vrms

- CMU output relay state = Fault
- Result = Pass

- CMU is powered up and reset in the No Fault state
- Type 1 command frames received from the CMU for HDSP1-16
- Type 129 response frames sent with the following data for 500ms:

Channel 1-16 Channel 17-32
.RRRRRRRRRRRRR. RRRRRRRRRRRRRRRR R = 26 Vrms, . = 0 Vrms
Y.....Y Y = 26 Vrms, . = 0 Vrms
..... G = 26 Vrms, . = 0 Vrms

- CMU output relay state = Fault
- Result = Pass

- CMU is powered up and reset in the No Fault state

- Type 1 command frames received from the CMU for HDSP1-16
- Type 129 response frames sent with the following data for 500ms:

Channel 1-16 Channel 17-32
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Y..... Y..... Y = 26 Vrms, . = 0 Vrms
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Channel 1-16 Channel 17-32
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Y..... .Y..... Y = 26 Vrms, . = 0 Vrms
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Channel 1-16 Channel 17-32
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Y..... .Y..... Y = 26 Vrms, . = 0 Vrms
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Channel 1-16 Channel 17-32
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- Type 129 response frames sent with the following data for 500ms:

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Channel 1-16      Channel 17-32
.RRRRRRRRRRRRRR RRRR.RRRRRRRRRR  R = 26 Vrms, . = 0 Vrms
Y.....          .....Y.....    Y = 26 Vrms, . = 0 Vrms
.....          .....          G = 26 Vrms, . = 0 Vrms

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- CMU output relay state = Fault
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Channel 1-16      Channel 17-32
.RRRRRRRRRRRRRR RRRR.RRRRRRRRRR  R = 26 Vrms, . = 0 Vrms
Y.....          .....Y.....    Y = 26 Vrms, . = 0 Vrms
.....          .....          G = 26 Vrms, . = 0 Vrms

```

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Channel 1-16      Channel 17-32
.RRRRRRRRRRRRRR RRRR.RRRRRRRRRR  R = 26 Vrms, . = 0 Vrms
Y.....          .....Y.....    Y = 26 Vrms, . = 0 Vrms
.....          .....          G = 26 Vrms, . = 0 Vrms

```

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- CMU is powered up and reset in the No Fault state
- Type 1 command frames received from the CMU for HDSP1-16
- Type 129 response frames sent with the following data for 500ms:

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Channel 1-16      Channel 17-32
.RRRRRRRRRRRRRR RRRR.RRRRRRRRRR  R = 26 Vrms, . = 0 Vrms
Y.....          .....Y.....    Y = 26 Vrms, . = 0 Vrms
.....          .....          G = 26 Vrms, . = 0 Vrms

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- CMU output relay state = Fault
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Channel 1-16      Channel 17-32
.RRRRRRRRRRRRRR RRRRRRRR.RRRRRRR  R = 26 Vrms, . = 0 Vrms
Y.....          .....Y.....    Y = 26 Vrms, . = 0 Vrms
.....          .....          G = 26 Vrms, . = 0 Vrms

```

- CMU output relay state = Fault
- Result = Pass

- CMU is powered up and reset in the No Fault state
- Type 1 command frames received from the CMU for HDSP1-16
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Channel 1-16      Channel 17-32
.RRRRRRRRRRRRRR RRRRRRRRRR.RRRRRR  R = 26 Vrms, . = 0 Vrms
Y.....          .....Y.....    Y = 26 Vrms, . = 0 Vrms
.....          .....          G = 26 Vrms, . = 0 Vrms

```

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- Type 129 response frames sent with the following data for 500ms:

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Channel 1-16      Channel 17-32
.RRRRRRRRRRRRRR RRRRRRRRRR.RRRRRR  R = 26 Vrms, . = 0 Vrms
Y.....          .....Y.....    Y = 26 Vrms, . = 0 Vrms
.....          .....          G = 26 Vrms, . = 0 Vrms

```

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- Result = Pass

- CMU is powered up and reset in the No Fault state
- Type 1 command frames received from the CMU for HDSP1-16
- Type 129 response frames sent with the following data for 500ms:

```

Channel 1-16      Channel 17-32
.RRRRRRRRRRRRRR RRRRRRRRRR.RRRR    R = 26 Vrms, . = 0 Vrms
Y.....          .....Y.....    Y = 26 Vrms, . = 0 Vrms

```

..... G = 26 Vrms, . = 0 Vrms
- CMU output relay state = Fault
- Result = Pass

- CMU is powered up and reset in the No Fault state
- Type 1 command frames received from the CMU for HDSP1-16
- Type 129 response frames sent with the following data for 500ms:

Channel 1-16	Channel 17-32	
.RRRRRRRRRRRRRRRR	RRRRRRRRRRRRRR.RRR	R = 26 Vrms, . = 0 Vrms
Y.....Y...	Y = 26 Vrms, . = 0 Vrms
.....	G = 26 Vrms, . = 0 Vrms

- CMU output relay state = Fault
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- Type 129 response frames sent with the following data for 500ms:

Channel 1-16	Channel 17-32	
.RRRRRRRRRRRRRRRR	RRRRRRRRRRRRRR.RR	R = 26 Vrms, . = 0 Vrms
Y.....Y..	Y = 26 Vrms, . = 0 Vrms
.....	G = 26 Vrms, . = 0 Vrms

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- Type 129 response frames sent with the following data for 500ms:

Channel 1-16	Channel 17-32	
.RRRRRRRRRRRRRRRR	RRRRRRRRRRRRRRR.R	R = 26 Vrms, . = 0 Vrms
Y.....Y.	Y = 26 Vrms, . = 0 Vrms
.....	G = 26 Vrms, . = 0 Vrms

- CMU output relay state = Fault
- Result = Pass

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- Type 1 command frames received from the CMU for HDSP1-16
- Type 129 response frames sent with the following data for 500ms:

Channel 1-16 Channel 17-32

.RRRRRRRRRRRRRRRR	RRRRRRRRRRRRRRRR.	R = 26 Vrms, . = 0 Vrms
Y.....Y	Y = 26 Vrms, . = 0 Vrms
.....	G = 26 Vrms, . = 0 Vrms

- CMU output relay state = Fault
- Result = Pass

Multiple Indication Detect Test

- CMU is powered up and reset in the No Fault state
- Type 1 command frames received from the CMU for HDSP1-16
- Type 129 response frames sent with the following data for 450ms:

Channel 1-16	Channel 17-32	
RRRRRRRRRRRRRRRR	RRRRRRRRRRRRRRRR	R = 26 Vrms, . = 0 Vrms
Y.....	Y = 26 Vrms, . = 0 Vrms
G.....	G = 26 Vrms, . = 0 Vrms

- CMU output relay state = Fault
- Result = Pass

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- Type 129 response frames sent with the following data for 450ms:

Channel 1-16	Channel 17-32	
RRRRRRRRRRRRRRRR	RRRRRRRRRRRRRRRR	R = 26 Vrms, . = 0 Vrms
.Y.....	Y = 26 Vrms, . = 0 Vrms
.G.....	G = 26 Vrms, . = 0 Vrms

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- Result = Pass

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- Type 129 response frames sent with the following data for 450ms:

Channel 1-16	Channel 17-32	
RRRRRRRRRRRRRRRR	RRRRRRRRRRRRRRRR	R = 26 Vrms, . = 0 Vrms
..Y.....	Y = 26 Vrms, . = 0 Vrms
..G.....	G = 26 Vrms, . = 0 Vrms

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- Result = Pass

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- Type 1 command frames received from the CMU for HDSP1-16
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```

Channel 1-16      Channel 17-32
RRRRRRRRRRRRRRR RRRRRRRRRRRRRR  R = 26 Vrms, . = 0 Vrms
...Y.....        .....          Y = 26 Vrms, . = 0 Vrms
...G.....        .....          G = 26 Vrms, . = 0 Vrms

```

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Channel 1-16      Channel 17-32
RRRRRRRRRRRRRRR RRRRRRRRRRRRRR  R = 26 Vrms, . = 0 Vrms
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```

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Channel 1-16	Channel 17-32	
RRRRRRRRRRRRRRRR	RRRRRRRRRRRRRRRR	R = 26 Vrms, . = 0 Vrms
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Channel 1-16	Channel 17-32	
RRRRRRRRRRRRRRRR	RRRRRRRRRRRRRRRR	R = 26 Vrms, . = 0 Vrms
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Channel 1-16	Channel 17-32	
RRRRRRRRRRRRRRRR	RRRRRRRRRRRRRRRR	R = 26 Vrms, . = 0 Vrms
.....Y.	Y = 26 Vrms, . = 0 Vrms

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RRRRRRRRRRRRRRRR	RRRRRRRRRRRRRRRR	R = 26 Vrms, . = 0 Vrms
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- CMU output relay state = Fault
- Result = Pass

- CMU is powered up and reset in the No Fault state
- Type 1 command frames received from the CMU for HDSP1-16
- Type 129 response frames sent with the following data for 450ms:

```

Channel 1-16      Channel 17-32
RRRRRRRRRRRRRRR RRRRRRRRRRRRRRRR R = 26 Vrms, . = 0 Vrms
.....Y.. Y = 26 Vrms, . = 0 Vrms
.....G.. G = 26 Vrms, . = 0 Vrms

```

- CMU output relay state = Fault
- Result = Pass

Test Report

- CMU is powered up and reset in the No Fault state
- Type 1 command frames received from the CMU for HDSP1-16
- Type 129 response frames sent with the following data for 450ms:

```

Channel 1-16      Channel 17-32
RRRRRRRRRRRRRRR RRRRRRRRRRRRRRRR R = 26 Vrms, . = 0 Vrms
.....Y. Y = 26 Vrms, . = 0 Vrms
.....G. G = 26 Vrms, . = 0 Vrms

```

- CMU output relay state = Fault
- Result = Pass

- CMU is powered up and reset in the No Fault state
- Type 1 command frames received from the CMU for HDSP1-16
- Type 129 response frames sent with the following data for 450ms:

```

Channel 1-16      Channel 17-32
RRRRRRRRRRRRRRR RRRRRRRRRRRRRRRR R = 26 Vrms, . = 0 Vrms
.....Y Y = 26 Vrms, . = 0 Vrms
.....G G = 26 Vrms, . = 0 Vrms

```

- CMU output relay state = Fault
- Result = Pass

15 Vrms Ignore Test

- CMU is powered up and reset in the No Fault state
- Type 1 command frames received from the CMU for HDSP1-16
- Type 129 response frames sent with the following data for 1000ms:

```

Channel 1-16      Channel 17-32
RRRRRRRRRRRRRRR RRRRRRRRRRRRRRRR R = 120 Vrms, . = 0 Vrms
YYYYYYYYYYYYYYY YYYYYYYYYYYYYYYY y = 14 Vrms, . = 0 Vrms
ggggggggggggggg gggggggggggggggg g = 14 Vrms, . = 0 Vrms

```

- CMU output relay state = No Fault
- Result = Pass

Lack of Signal Detect Test

- CMU is powered up and reset in the No Fault state
- Type 1 command frames received from the CMU for HDSP1-16
- Type 129 response frames sent with the following data for 1533ms:

```

Channel 1-16      Channel 17-32

```

```
rRRRRRRRRRRRRRRR RRRRRRRRRRRRRRRR R = 120 Vrms, r = 49 Vrms
..... Y = 120 Vrms, . = 0 Vrms
..... G = 120 Vrms, . = 0 Vrms
```

- CMU output relay state = Fault
- Result = Pass

- CMU is powered up and reset in the No Fault state
- Type 1 command frames received from the CMU for HDSP1-16
- Type 129 response frames sent with the following data for 1533ms:

```
Channel 1-16      Channel 17-32
RrRRRRRRRRRRRRR RRRRRRRRRRRRRRRR R = 120 Vrms, r = 49 Vrms
..... Y = 120 Vrms, . = 0 Vrms
..... G = 120 Vrms, . = 0 Vrms
```

- CMU output relay state = Fault
- Result = Pass

- CMU is powered up and reset in the No Fault state
- Type 1 command frames received from the CMU for HDSP1-16
- Type 129 response frames sent with the following data for 1533ms:

```
Channel 1-16      Channel 17-32
RRrRRRRRRRRRRRRR RRRRRRRRRRRRRRRR R = 120 Vrms, r = 49 Vrms
..... Y = 120 Vrms, . = 0 Vrms
..... G = 120 Vrms, . = 0 Vrms
```

- CMU output relay state = Fault
- Result = Pass

- CMU is powered up and reset in the No Fault state
- Type 1 command frames received from the CMU for HDSP1-16
- Type 129 response frames sent with the following data for 1533ms:

```
Channel 1-16      Channel 17-32
RRRrRRRRRRRRRRRRR RRRRRRRRRRRRRRRR R = 120 Vrms, r = 49 Vrms
..... Y = 120 Vrms, . = 0 Vrms
..... G = 120 Vrms, . = 0 Vrms
```

- CMU output relay state = Fault
- Result = Pass

- CMU is powered up and reset in the No Fault state
- Type 1 command frames received from the CMU for HDSP1-16
- Type 129 response frames sent with the following data for 1533ms:

```
Channel 1-16      Channel 17-32
RRRRrRRRRRRRRRRRRR RRRRRRRRRRRRRRRR R = 120 Vrms, r = 49 Vrms
..... Y = 120 Vrms, . = 0 Vrms
..... G = 120 Vrms, . = 0 Vrms
```

- CMU output relay state = Fault
- Result = Pass

- CMU is powered up and reset in the No Fault state
- Type 1 command frames received from the CMU for HDSP1-16
- Type 129 response frames sent with the following data for 1533ms:

```
Channel 1-16      Channel 17-32
RRRRRrRRRRRRRRRRRRR RRRRRRRRRRRRRRRR R = 120 Vrms, r = 49 Vrms
..... Y = 120 Vrms, . = 0 Vrms
..... G = 120 Vrms, . = 0 Vrms
```

- CMU output relay state = Fault
- Result = Pass

- CMU is powered up and reset in the No Fault state
- Type 1 command frames received from the CMU for HDSP1-16
- Type 129 response frames sent with the following data for 1533ms:

```
Channel 1-16      Channel 17-32
RRRRRRrRRRRRRRRRRRRR RRRRRRRRRRRRRRRR R = 120 Vrms, r = 49 Vrms
..... Y = 120 Vrms, . = 0 Vrms
..... G = 120 Vrms, . = 0 Vrms
```

- CMU output relay state = Fault
- Result = Pass

- CMU is powered up and reset in the No Fault state
- Type 1 command frames received from the CMU for HDSP1-16
- Type 129 response frames sent with the following data for 1533ms:

```
Channel 1-16      Channel 17-32
RRRRRRRrRRRRRRRRRRRRR RRRRRRRRRRRRRRRR R = 120 Vrms, r = 49 Vrms
..... Y = 120 Vrms, . = 0 Vrms
..... G = 120 Vrms, . = 0 Vrms
```

- CMU output relay state = Fault
- Result = Pass

- CMU is powered up and reset in the No Fault state

- Type 1 command frames received from the CMU for HDSP1-16
- Type 129 response frames sent with the following data for 1533ms:

```

Channel 1-16      Channel 17-32
RRRRRRRRRrRRRRRRR RRRRRRRRRRRRRRRR  R = 120 Vrms, r = 49 Vrms
.....           .....                Y = 120 Vrms, . = 0 Vrms
.....           .....                G = 120 Vrms, . = 0 Vrms

```

- CMU output relay state = Fault
- Result = Pass

- CMU is powered up and reset in the No Fault state
- Type 1 command frames received from the CMU for HDSP1-16
- Type 129 response frames sent with the following data for 1533ms:

```

Channel 1-16      Channel 17-32
RRRRRRRRRrRRRRRRR RRRRRRRRRRRRRRRR  R = 120 Vrms, r = 49 Vrms
.....           .....                Y = 120 Vrms, . = 0 Vrms
.....           .....                G = 120 Vrms, . = 0 Vrms

```

- CMU output relay state = Fault
- Result = Pass

- CMU is powered up and reset in the No Fault state
- Type 1 command frames received from the CMU for HDSP1-16
- Type 129 response frames sent with the following data for 1533ms:

```

Channel 1-16      Channel 17-32
RRRRRRRRRrRRRRRRR RRRRRRRRRRRRRRRR  R = 120 Vrms, r = 49 Vrms
.....           .....                Y = 120 Vrms, . = 0 Vrms
.....           .....                G = 120 Vrms, . = 0 Vrms

```

- CMU output relay state = Fault
- Result = Pass

- CMU is powered up and reset in the No Fault state
- Type 1 command frames received from the CMU for HDSP1-16
- Type 129 response frames sent with the following data for 1533ms:

```

Channel 1-16      Channel 17-32
RRRRRRRRRrRRRRRRR RRRRRRRRRRRRRRRR  R = 120 Vrms, r = 49 Vrms
.....           .....                Y = 120 Vrms, . = 0 Vrms
.....           .....                G = 120 Vrms, . = 0 Vrms

```

- CMU output relay state = Fault
- Result = Pass

- CMU is powered up and reset in the No Fault state
- Type 1 command frames received from the CMU for HDSP1-16
- Type 129 response frames sent with the following data for 1533ms:

```

Channel 1-16      Channel 17-32
RRRRRRRRRrRRRRRRR RRRRRRRRRRRRRRRR  R = 120 Vrms, r = 49 Vrms
.....           .....                Y = 120 Vrms, . = 0 Vrms
.....           .....                G = 120 Vrms, . = 0 Vrms

```

- CMU output relay state = Fault
- Result = Pass

- CMU is powered up and reset in the No Fault state
- Type 1 command frames received from the CMU for HDSP1-16
- Type 129 response frames sent with the following data for 1533ms:

```

Channel 1-16      Channel 17-32
RRRRRRRRRrRRRRRRR RRRRRRRRRRRRRRRR  R = 120 Vrms, r = 49 Vrms
.....           .....                Y = 120 Vrms, . = 0 Vrms
.....           .....                G = 120 Vrms, . = 0 Vrms

```

- CMU output relay state = Fault
- Result = Pass

- CMU is powered up and reset in the No Fault state
- Type 1 command frames received from the CMU for HDSP1-16
- Type 129 response frames sent with the following data for 1533ms:

```

Channel 1-16      Channel 17-32
RRRRRRRRRrRRRRRRR RRRRRRRRRRRRRRRR  R = 120 Vrms, r = 49 Vrms
.....           .....                Y = 120 Vrms, . = 0 Vrms
.....           .....                G = 120 Vrms, . = 0 Vrms

```

- CMU output relay state = Fault
- Result = Pass

- CMU is powered up and reset in the No Fault state
- Type 1 command frames received from the CMU for HDSP1-16
- Type 129 response frames sent with the following data for 1533ms:

```

Channel 1-16      Channel 17-32
RRRRRRRRRrRRRRRRR RRRRRRRRRRRRRRRR  R = 120 Vrms, r = 49 Vrms
.....           .....                Y = 120 Vrms, . = 0 Vrms
.....           .....                G = 120 Vrms, . = 0 Vrms

```

- CMU output relay state = Fault
- Result = Pass

- CMU is powered up and reset in the No Fault state
- Type 1 command frames received from the CMU for HDSP1-16
- Type 129 response frames sent with the following data for 1533ms:

```
Channel 1-16      Channel 17-32
RRRRRRRRRRRRRRR rRRRRRRRRRRRRRRR  R = 120 Vrms, r = 49 Vrms
.....          .....              Y = 120 Vrms, . = 0 Vrms
.....          .....              G = 120 Vrms, . = 0 Vrms
```

- CMU output relay state = Fault
- Result = Pass

- CMU is powered up and reset in the No Fault state
- Type 1 command frames received from the CMU for HDSP1-16
- Type 129 response frames sent with the following data for 1533ms:

```
Channel 1-16      Channel 17-32
RRRRRRRRRRRRRRR RrRRRRRRRRRRRRRRR  R = 120 Vrms, r = 49 Vrms
.....          .....              Y = 120 Vrms, . = 0 Vrms
.....          .....              G = 120 Vrms, . = 0 Vrms
```

- CMU output relay state = Fault
- Result = Pass

- CMU is powered up and reset in the No Fault state
- Type 1 command frames received from the CMU for HDSP1-16
- Type 129 response frames sent with the following data for 1533ms:

```
Channel 1-16      Channel 17-32
RRRRRRRRRRRRRRR RRrRRRRRRRRRRRRRRR  R = 120 Vrms, r = 49 Vrms
.....          .....              Y = 120 Vrms, . = 0 Vrms
.....          .....              G = 120 Vrms, . = 0 Vrms
```

- CMU output relay state = Fault
- Result = Pass

- CMU is powered up and reset in the No Fault state
- Type 1 command frames received from the CMU for HDSP1-16
- Type 129 response frames sent with the following data for 1533ms:

```
Channel 1-16      Channel 17-32
RRRRRRRRRRRRRRR RRRrRRRRRRRRRRRRRRR  R = 120 Vrms, r = 49 Vrms
.....          .....              Y = 120 Vrms, . = 0 Vrms
```

```
.....          .....              G = 120 Vrms, . = 0 Vrms
```

- CMU output relay state = Fault
- Result = Pass

- CMU is powered up and reset in the No Fault state
- Type 1 command frames received from the CMU for HDSP1-16
- Type 129 response frames sent with the following data for 1533ms:

```
Channel 1-16      Channel 17-32
RRRRRRRRRRRRRRR RRRRrRRRRRRRRRRRRRRR  R = 120 Vrms, r = 49 Vrms
.....          .....              Y = 120 Vrms, . = 0 Vrms
.....          .....              G = 120 Vrms, . = 0 Vrms
```

- CMU output relay state = Fault
- Result = Pass

- CMU is powered up and reset in the No Fault state
- Type 1 command frames received from the CMU for HDSP1-16
- Type 129 response frames sent with the following data for 1533ms:

```
Channel 1-16      Channel 17-32
RRRRRRRRRRRRRRR RRRRRrRRRRRRRRRRRRRRR  R = 120 Vrms, r = 49 Vrms
.....          .....              Y = 120 Vrms, . = 0 Vrms
.....          .....              G = 120 Vrms, . = 0 Vrms
```

- CMU output relay state = Fault
- Result = Pass

- CMU is powered up and reset in the No Fault state
- Type 1 command frames received from the CMU for HDSP1-16
- Type 129 response frames sent with the following data for 1533ms:

```
Channel 1-16      Channel 17-32
RRRRRRRRRRRRRRR RRRRRRrRRRRRRRRRRRRRRR  R = 120 Vrms, r = 49 Vrms
.....          .....              Y = 120 Vrms, . = 0 Vrms
.....          .....              G = 120 Vrms, . = 0 Vrms
```

- CMU output relay state = Fault
- Result = Pass

- CMU is powered up and reset in the No Fault state
- Type 1 command frames received from the CMU for HDSP1-16
- Type 129 response frames sent with the following data for 1533ms:

```
Channel 1-16      Channel 17-32
```

RRRRRRRRRRRRRRRR RRRRRRRrRRRRRRRR R = 120 Vrms, r = 49 Vrms
..... Y = 120 Vrms, . = 0 Vrms
..... G = 120 Vrms, . = 0 Vrms

- CMU output relay state = Fault
- Result = Pass

- CMU is powered up and reset in the No Fault state
- Type 1 command frames received from the CMU for HDSP1-16
- Type 129 response frames sent with the following data for 1533ms:

Channel 1-16 Channel 17-32
RRRRRRRRRRRRRRRR RRRRRRRrRRRRRRRR R = 120 Vrms, r = 49 Vrms
..... Y = 120 Vrms, . = 0 Vrms
..... G = 120 Vrms, . = 0 Vrms

- CMU output relay state = Fault
- Result = Pass

- CMU is powered up and reset in the No Fault state
- Type 1 command frames received from the CMU for HDSP1-16
- Type 129 response frames sent with the following data for 1533ms:

Channel 1-16 Channel 17-32
RRRRRRRRRRRRRRRR RRRRRRRrRRRRRRRR R = 120 Vrms, r = 49 Vrms
..... Y = 120 Vrms, . = 0 Vrms
..... G = 120 Vrms, . = 0 Vrms

- CMU output relay state = Fault
- Result = Pass

- CMU is powered up and reset in the No Fault state
- Type 1 command frames received from the CMU for HDSP1-16
- Type 129 response frames sent with the following data for 1533ms:

Channel 1-16 Channel 17-32
RRRRRRRRRRRRRRRR RRRRRRRrRRRRRRRR R = 120 Vrms, r = 49 Vrms
..... Y = 120 Vrms, . = 0 Vrms
..... G = 120 Vrms, . = 0 Vrms

- CMU output relay state = Fault
- Result = Pass

- CMU is powered up and reset in the No Fault state
- Type 1 command frames received from the CMU for HDSP1-16
- Type 129 response frames sent with the following data for 1533ms:

Channel 1-16 Channel 17-32
RRRRRRRRRRRRRRRR RRRRRRRrRRRRRRRR R = 120 Vrms, r = 49 Vrms
..... Y = 120 Vrms, . = 0 Vrms
..... G = 120 Vrms, . = 0 Vrms

- CMU output relay state = Fault
- Result = Pass

- CMU is powered up and reset in the No Fault state
- Type 1 command frames received from the CMU for HDSP1-16
- Type 129 response frames sent with the following data for 1533ms:

Channel 1-16 Channel 17-32
RRRRRRRRRRRRRRRR RRRRRRRrRRRRRRRR R = 120 Vrms, r = 49 Vrms
..... Y = 120 Vrms, . = 0 Vrms
..... G = 120 Vrms, . = 0 Vrms

- CMU output relay state = Fault
- Result = Pass

- CMU is powered up and reset in the No Fault state
- Type 1 command frames received from the CMU for HDSP1-16
- Type 129 response frames sent with the following data for 1533ms:

Channel 1-16 Channel 17-32
RRRRRRRRRRRRRRRR RRRRRRRrRRRRRRRR R = 120 Vrms, r = 49 Vrms
..... Y = 120 Vrms, . = 0 Vrms
..... G = 120 Vrms, . = 0 Vrms

- CMU output relay state = Fault
- Result = Pass

- CMU is powered up and reset in the No Fault state
- Type 1 command frames received from the CMU for HDSP1-16
- Type 129 response frames sent with the following data for 1533ms:

Channel 1-16 Channel 17-32
RRRRRRRRRRRRRRRR RRRRRRRrRRRRRRRR R = 120 Vrms, r = 49 Vrms
..... Y = 120 Vrms, . = 0 Vrms
..... G = 120 Vrms, . = 0 Vrms

- CMU output relay state = Fault
- Result = Pass

- CMU is powered up and reset in the No Fault state

- Type 1 command frames received from the CMU for HDSP1-16
- Type 129 response frames sent with the following data for 1533ms:

```

Channel 1-16      Channel 17-32
RRRRRRRRRRRRRRR RRRRRRRRRRRRRRr  R = 120 Vrms, r = 49 Vrms
.....          .....          Y = 120 Vrms, . = 0 Vrms
.....          .....          G = 120 Vrms, . = 0 Vrms

```

- CMU output relay state = Fault
- Result = Pass

Lack of Signal Ignore Test

- CMU is powered up and reset in the No Fault state
- Type 1 command frames received from the CMU for HDSP1-16
- Type 129 response frames sent with the following data for 700ms:

```

Channel 1-16      Channel 17-32
rrrrrrrrrrrrrrr rrrrrrrrrrrrrrr  R = 120 Vrms, r = 49 Vrms
.....          .....          Y = 120 Vrms, . = 0 Vrms
.....          .....          G = 120 Vrms, . = 0 Vrms

```

- CMU output relay state = No Fault
- Result = Pass

Short YEL Clearance Detect Test

- CMU is powered up and reset in the No Fault state
- Type 1 command frames received from the CMU for HDSP1-16
- Type 129 response frames sent with the following data for 3000ms:

```

Channel 1-16      Channel 17-32
.RRRRRRRRRRRRRR RRRRRRRRRRRRRRR  R = 120 Vrms, . = 0 Vrms
.....          .....          Y = 120 Vrms, . = 0 Vrms
G.....          .....          G = 120 Vrms, . = 0 Vrms

```

- Type 129 response frames sent with the following data for 2500ms:

```

Channel 1-16      Channel 17-32
.RRRRRRRRRRRRRR RRRRRRRRRRRRRRR  R = 120 Vrms, . = 0 Vrms
Y.....          .....          Y = 120 Vrms, . = 0 Vrms
.....          .....          G = 120 Vrms, . = 0 Vrms

```

- Type 129 response frames sent with the following data for 3000ms:

```

Channel 1-16      Channel 17-32

```

```

RRRRRRRRRRRRRRR RRRRRRRRRRRRRRR  R = 120 Vrms, . = 0 Vrms
.....          .....          Y = 120 Vrms, . = 0 Vrms
.....          .....          G = 120 Vrms, . = 0 Vrms

```

- CMU output relay state = Fault
- Result = Pass

- CMU is powered up and reset in the No Fault state
- Type 1 command frames received from the CMU for HDSP1-16
- Type 129 response frames sent with the following data for 3000ms:

```

Channel 1-16      Channel 17-32
R.RRRRRRRRRRRRRR RRRRRRRRRRRRRRR  R = 120 Vrms, . = 0 Vrms
.....          .....          Y = 120 Vrms, . = 0 Vrms
.G.....          .....          G = 120 Vrms, . = 0 Vrms

```

- Type 129 response frames sent with the following data for 2500ms:

```

Channel 1-16      Channel 17-32
R.RRRRRRRRRRRRRR RRRRRRRRRRRRRRR  R = 120 Vrms, . = 0 Vrms
.Y.....          .....          Y = 120 Vrms, . = 0 Vrms
.....          .....          G = 120 Vrms, . = 0 Vrms

```

- Type 129 response frames sent with the following data for 3000ms:

```

Channel 1-16      Channel 17-32
RRRRRRRRRRRRRRR RRRRRRRRRRRRRRR  R = 120 Vrms, . = 0 Vrms
.....          .....          Y = 120 Vrms, . = 0 Vrms
.....          .....          G = 120 Vrms, . = 0 Vrms

```

- CMU output relay state = Fault
- Result = Pass

- CMU is powered up and reset in the No Fault state
- Type 1 command frames received from the CMU for HDSP1-16
- Type 129 response frames sent with the following data for 3000ms:

```

Channel 1-16      Channel 17-32
RR.RRRRRRRRRRRRRR RRRRRRRRRRRRRRR  R = 120 Vrms, . = 0 Vrms
.....          .....          Y = 120 Vrms, . = 0 Vrms
..G.....          .....          G = 120 Vrms, . = 0 Vrms

```

- Type 129 response frames sent with the following data for 2500ms:

```

Channel 1-16      Channel 17-32
RR.RRRRRRRRRRRRRR RRRRRRRRRRRRRRR  R = 120 Vrms, . = 0 Vrms

```

..Y..... Y = 120 Vrms, . = 0 Vrms
..... G = 120 Vrms, . = 0 Vrms

- Type 129 response frames sent with the following data for 3000ms:

Channel 1-16 Channel 17-32
RRRR.RRRRRRRRRRR RRRRRRRRRRRRRRRR R = 120 Vrms, . = 0 Vrms
..... Y = 120 Vrms, . = 0 Vrms
..... G = 120 Vrms, . = 0 Vrms

- CMU output relay state = Fault
- Result = Pass

- CMU is powered up and reset in the No Fault state
- Type 1 command frames received from the CMU for HDSP1-16
- Type 129 response frames sent with the following data for 3000ms:

Channel 1-16 Channel 17-32
RRR.RRRRRRRRRRR RRRRRRRRRRRRRRRR R = 120 Vrms, . = 0 Vrms
..... Y = 120 Vrms, . = 0 Vrms
...G..... G = 120 Vrms, . = 0 Vrms

- Type 129 response frames sent with the following data for 2500ms:

Channel 1-16 Channel 17-32
RRR.RRRRRRRRRRR RRRRRRRRRRRRRRRR R = 120 Vrms, . = 0 Vrms
...Y..... Y = 120 Vrms, . = 0 Vrms
..... G = 120 Vrms, . = 0 Vrms

- Type 129 response frames sent with the following data for 3000ms:

Channel 1-16 Channel 17-32
RRRR.RRRRRRRRRRR RRRRRRRRRRRRRRRR R = 120 Vrms, . = 0 Vrms
..... Y = 120 Vrms, . = 0 Vrms
..... G = 120 Vrms, . = 0 Vrms

- CMU output relay state = Fault
- Result = Pass

- CMU is powered up and reset in the No Fault state
- Type 1 command frames received from the CMU for HDSP1-16
- Type 129 response frames sent with the following data for 3000ms:

Channel 1-16 Channel 17-32
RRRR.RRRRRRRRRRR RRRRRRRRRRRRRRRR R = 120 Vrms, . = 0 Vrms
..... Y = 120 Vrms, . = 0 Vrms

....G..... G = 120 Vrms, . = 0 Vrms

- Type 129 response frames sent with the following data for 2500ms:

Channel 1-16 Channel 17-32
RRRR.RRRRRRRRRRR RRRRRRRRRRRRRRRR R = 120 Vrms, . = 0 Vrms
...Y..... Y = 120 Vrms, . = 0 Vrms
..... G = 120 Vrms, . = 0 Vrms

- Type 129 response frames sent with the following data for 3000ms:

Channel 1-16 Channel 17-32
RRRR.RRRRRRRRRRR RRRRRRRRRRRRRRRR R = 120 Vrms, . = 0 Vrms
..... Y = 120 Vrms, . = 0 Vrms
..... G = 120 Vrms, . = 0 Vrms

- CMU output relay state = Fault
- Result = Pass

- CMU is powered up and reset in the No Fault state
- Type 1 command frames received from the CMU for HDSP1-16
- Type 129 response frames sent with the following data for 3000ms:

Channel 1-16 Channel 17-32
RRRR.RRRRRRRRRRR RRRRRRRRRRRRRRRR R = 120 Vrms, . = 0 Vrms
..... Y = 120 Vrms, . = 0 Vrms
...G..... G = 120 Vrms, . = 0 Vrms

- Type 129 response frames sent with the following data for 2500ms:

Channel 1-16 Channel 17-32
RRRR.RRRRRRRRRRR RRRRRRRRRRRRRRRR R = 120 Vrms, . = 0 Vrms
...Y..... Y = 120 Vrms, . = 0 Vrms
..... G = 120 Vrms, . = 0 Vrms

- Type 129 response frames sent with the following data for 3000ms:

Channel 1-16 Channel 17-32
RRRR.RRRRRRRRRRR RRRRRRRRRRRRRRRR R = 120 Vrms, . = 0 Vrms
..... Y = 120 Vrms, . = 0 Vrms
..... G = 120 Vrms, . = 0 Vrms

- CMU output relay state = Fault
- Result = Pass

- CMU is powered up and reset in the No Fault state

- Type 1 command frames received from the CMU for HDSP1-16
- Type 129 response frames sent with the following data for 3000ms:

```

Channel 1-16      Channel 17-32
RRRRRR.RRRRRRRR RRRRRRRRRRRRRRRR R = 120 Vrms, . = 0 Vrms
.....          ..... Y = 120 Vrms, . = 0 Vrms
.....G.....     ..... G = 120 Vrms, . = 0 Vrms

```

- Type 129 response frames sent with the following data for 2500ms:

```

Channel 1-16      Channel 17-32
RRRRRR.RRRRRRRR RRRRRRRRRRRRRRRR R = 120 Vrms, . = 0 Vrms
.....Y.....     ..... Y = 120 Vrms, . = 0 Vrms
.....          ..... G = 120 Vrms, . = 0 Vrms

```

- Type 129 response frames sent with the following data for 3000ms:

```

Channel 1-16      Channel 17-32
RRRRRRRRRRRRRRR RRRRRRRRRRRRRRRR R = 120 Vrms, . = 0 Vrms
.....          ..... Y = 120 Vrms, . = 0 Vrms
.....          ..... G = 120 Vrms, . = 0 Vrms

```

- CMU output relay state = Fault
- Result = Pass

- CMU is powered up and reset in the No Fault state
- Type 1 command frames received from the CMU for HDSP1-16
- Type 129 response frames sent with the following data for 3000ms:

```

Channel 1-16      Channel 17-32
RRRRRR.RRRRRRRR RRRRRRRRRRRRRRRR R = 120 Vrms, . = 0 Vrms
.....          ..... Y = 120 Vrms, . = 0 Vrms
.....G.....     ..... G = 120 Vrms, . = 0 Vrms

```

- Type 129 response frames sent with the following data for 2500ms:

```

Channel 1-16      Channel 17-32
RRRRRR.RRRRRRRR RRRRRRRRRRRRRRRR R = 120 Vrms, . = 0 Vrms
.....Y.....     ..... Y = 120 Vrms, . = 0 Vrms
.....          ..... G = 120 Vrms, . = 0 Vrms

```

- Type 129 response frames sent with the following data for 3000ms:

```

Channel 1-16      Channel 17-32
RRRRRRRRRRRRRRR RRRRRRRRRRRRRRRR R = 120 Vrms, . = 0 Vrms
.....          ..... Y = 120 Vrms, . = 0 Vrms
.....          ..... G = 120 Vrms, . = 0 Vrms

```

```
..... G = 120 Vrms, . = 0 Vrms
```

- CMU output relay state = Fault
- Result = Pass

- CMU is powered up and reset in the No Fault state
- Type 1 command frames received from the CMU for HDSP1-16
- Type 129 response frames sent with the following data for 3000ms:

```

Channel 1-16      Channel 17-32
RRRRRRRR.RRRRRRR RRRRRRRRRRRRRRRR R = 120 Vrms, . = 0 Vrms
.....          ..... Y = 120 Vrms, . = 0 Vrms
.....G.....     ..... G = 120 Vrms, . = 0 Vrms

```

- Type 129 response frames sent with the following data for 2500ms:

```

Channel 1-16      Channel 17-32
RRRRRRRR.RRRRRRR RRRRRRRRRRRRRRRR R = 120 Vrms, . = 0 Vrms
.....Y.....     ..... Y = 120 Vrms, . = 0 Vrms
.....          ..... G = 120 Vrms, . = 0 Vrms

```

- Type 129 response frames sent with the following data for 3000ms:

```

Channel 1-16      Channel 17-32
RRRRRRRRRRRRRRR RRRRRRRRRRRRRRRR R = 120 Vrms, . = 0 Vrms
.....          ..... Y = 120 Vrms, . = 0 Vrms
.....          ..... G = 120 Vrms, . = 0 Vrms

```

- CMU output relay state = Fault
- Result = Pass

- CMU is powered up and reset in the No Fault state
- Type 1 command frames received from the CMU for HDSP1-16
- Type 129 response frames sent with the following data for 3000ms:

```

Channel 1-16      Channel 17-32
RRRRRRRRRR.RRRRRRR RRRRRRRRRRRRRRRR R = 120 Vrms, . = 0 Vrms
.....          ..... Y = 120 Vrms, . = 0 Vrms
.....G.....     ..... G = 120 Vrms, . = 0 Vrms

```

- Type 129 response frames sent with the following data for 2500ms:

```

Channel 1-16      Channel 17-32
RRRRRRRRRR.RRRRRRR RRRRRRRRRRRRRRRR R = 120 Vrms, . = 0 Vrms
.....Y.....     ..... Y = 120 Vrms, . = 0 Vrms
.....          ..... G = 120 Vrms, . = 0 Vrms

```

- Type 129 response frames sent with the following data for 3000ms:

Channel 1-16	Channel 17-32	
RRRRRRRRRRRRRRRR	RRRRRRRRRRRRRRRR	R = 120 Vrms, . = 0 Vrms
.....Y.....	Y = 120 Vrms, . = 0 Vrms
.....G.....	G = 120 Vrms, . = 0 Vrms

- CMU output relay state = Fault

- Result = Pass

- CMU is powered up and reset in the No Fault state

- Type 1 command frames received from the CMU for HDSP1-16

- Type 129 response frames sent with the following data for 3000ms:

Channel 1-16	Channel 17-32	
RRRRRRRRRR.RRRRR	RRRRRRRRRRRRRRRR	R = 120 Vrms, . = 0 Vrms
.....G.....	Y = 120 Vrms, . = 0 Vrms
.....	G = 120 Vrms, . = 0 Vrms

- Type 129 response frames sent with the following data for 2500ms:

Channel 1-16	Channel 17-32	
RRRRRRRRRR.RRRRR	RRRRRRRRRRRRRRRR	R = 120 Vrms, . = 0 Vrms
.....Y.....	Y = 120 Vrms, . = 0 Vrms
.....	G = 120 Vrms, . = 0 Vrms

- Type 129 response frames sent with the following data for 3000ms:

Channel 1-16	Channel 17-32	
RRRRRRRRRRRRRRRR	RRRRRRRRRRRRRRRR	R = 120 Vrms, . = 0 Vrms
.....	Y = 120 Vrms, . = 0 Vrms
.....G.....	G = 120 Vrms, . = 0 Vrms

- CMU output relay state = Fault

- Result = Pass

- CMU is powered up and reset in the No Fault state

- Type 1 command frames received from the CMU for HDSP1-16

- Type 129 response frames sent with the following data for 3000ms:

Channel 1-16	Channel 17-32	
RRRRRRRRRR.RRRRR	RRRRRRRRRRRRRRRR	R = 120 Vrms, . = 0 Vrms
.....Y.....	Y = 120 Vrms, . = 0 Vrms
.....G.....	G = 120 Vrms, . = 0 Vrms

- Type 129 response frames sent with the following data for 2500ms:

Channel 1-16	Channel 17-32	
RRRRRRRRRRRR.RRRRR	RRRRRRRRRRRRRRRR	R = 120 Vrms, . = 0 Vrms
.....Y.....	Y = 120 Vrms, . = 0 Vrms
.....	G = 120 Vrms, . = 0 Vrms

- Type 129 response frames sent with the following data for 3000ms:

Channel 1-16	Channel 17-32	
RRRRRRRRRRRRRRRR	RRRRRRRRRRRRRRRR	R = 120 Vrms, . = 0 Vrms
.....	Y = 120 Vrms, . = 0 Vrms
.....	G = 120 Vrms, . = 0 Vrms

- CMU output relay state = Fault

- Result = Pass

- CMU is powered up and reset in the No Fault state

- Type 1 command frames received from the CMU for HDSP1-16

- Type 129 response frames sent with the following data for 3000ms:

Channel 1-16	Channel 17-32	
RRRRRRRRRRRR.RRR	RRRRRRRRRRRRRRRR	R = 120 Vrms, . = 0 Vrms
.....G.....	Y = 120 Vrms, . = 0 Vrms
.....	G = 120 Vrms, . = 0 Vrms

- Type 129 response frames sent with the following data for 2500ms:

Channel 1-16	Channel 17-32	
RRRRRRRRRRRR.RRR	RRRRRRRRRRRRRRRR	R = 120 Vrms, . = 0 Vrms
.....Y.....	Y = 120 Vrms, . = 0 Vrms
.....	G = 120 Vrms, . = 0 Vrms

- Type 129 response frames sent with the following data for 3000ms:

Channel 1-16	Channel 17-32	
RRRRRRRRRRRRRRRR	RRRRRRRRRRRRRRRR	R = 120 Vrms, . = 0 Vrms
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- CMU output relay state = Fault

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- Type 129 response frames sent with the following data for 3000ms:

```

Channel 1-16      Channel 17-32
RRRRRRRRRRRRRR.RR RRRRRRRRRRRRRRRR  R = 120 Vrms, . = 0 Vrms
.....          Y = 120 Vrms, . = 0 Vrms
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```

Channel 1-16      Channel 17-32
RRRRRRRRRRRRRR.RR RRRRRRRRRRRRRRRR  R = 120 Vrms, . = 0 Vrms
.....          Y = 120 Vrms, . = 0 Vrms
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```

Channel 1-16      Channel 17-32
RRRRRRRRRRRRRRRR RRRRRRRRRRRRRRRR  R = 120 Vrms, . = 0 Vrms
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- CMU output relay state = Fault
- Result = Pass

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- Type 129 response frames sent with the following data for 3000ms:

```

Channel 1-16      Channel 17-32
RRRRRRRRRRRRRR.R RRRRRRRRRRRRRRRR  R = 120 Vrms, . = 0 Vrms
.....          Y = 120 Vrms, . = 0 Vrms
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```

Channel 1-16      Channel 17-32
RRRRRRRRRRRRRR.R RRRRRRRRRRRRRRRR  R = 120 Vrms, . = 0 Vrms
.....          Y = 120 Vrms, . = 0 Vrms
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- Type 129 response frames sent with the following data for 3000ms:

```

Channel 1-16      Channel 17-32
RRRRRRRRRRRRRRRR RRRRRRRRRRRRRRRR  R = 120 Vrms, . = 0 Vrms
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```

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- Type 129 response frames sent with the following data for 3000ms:

```

Channel 1-16      Channel 17-32
RRRRRRRRRRRRRRRR RRRRRRRRRRRRRRRR  R = 120 Vrms, . = 0 Vrms
.....          Y = 120 Vrms, . = 0 Vrms
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Channel 1-16      Channel 17-32
RRRRRRRRRRRRRRRR RRRRRRRRRRRRRRRR  R = 120 Vrms, . = 0 Vrms
.....          Y = 120 Vrms, . = 0 Vrms
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- Type 129 response frames sent with the following data for 3000ms:

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Channel 1-16      Channel 17-32
RRRRRRRRRRRRRRRR RRRRRRRRRRRRRRRR  R = 120 Vrms, . = 0 Vrms
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```

Channel 1-16      Channel 17-32
RRRRRRRRRRRRRRRR .RRRRRRRRRRRRRRR  R = 120 Vrms, . = 0 Vrms
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Channel 1-16      Channel 17-32
RRRRRRRRRRRRRRRR .RRRRRRRRRRRRRRR  R = 120 Vrms, . = 0 Vrms
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Channel 1-16      Channel 17-32
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```
Channel 1-16      Channel 17-32
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```

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Channel 1-16	Channel 17-32	
RRRRRRRRRRRRRRRR	RRRRRRRRRRRR.RRRR	R = 120 Vrms, . = 0 Vrms
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Channel 1-16	Channel 17-32	
RRRRRRRRRRRRRRRR	RRRRRRRRRRRR.R	R = 120 Vrms, . = 0 Vrms
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Channel 1-16	Channel 17-32	
RRRRRRRRRRRRRRRR	RRRRRRRRRRRRRR.R	R = 120 Vrms, . = 0 Vrms
.....Y.		Y = 120 Vrms, . = 0 Vrms
.....G....		G = 120 Vrms, . = 0 Vrms

- Type 129 response frames sent with the following data for 3000ms:

Channel 1-16	Channel 17-32	
RRRRRRRRRRRRRRRR	RRRRRRRRRRRRRRRR	R = 120 Vrms, . = 0 Vrms
.....Y....		Y = 120 Vrms, . = 0 Vrms

```

..... G = 120 Vrms, . = 0 Vrms

- CMU output relay state = Fault
- Result = Pass

- CMU is powered up and reset in the No Fault state
- Type 1 command frames received from the CMU for HDSP1-16
- Type 129 response frames sent with the following data for 3000ms:

Channel 1-16      Channel 17-32
RRRRRRRRRRRRRRR RRRRRRRRRRRRRR.  R = 120 Vrms, . = 0 Vrms
.....          .....          Y = 120 Vrms, . = 0 Vrms
.....          .....          G = 120 Vrms, . = 0 Vrms

- Type 129 response frames sent with the following data for 2500ms:

Channel 1-16      Channel 17-32
RRRRRRRRRRRRRRR RRRRRRRRRRRRRR.  R = 120 Vrms, . = 0 Vrms
.....          .....          Y = 120 Vrms, . = 0 Vrms
.....          .....          G = 120 Vrms, . = 0 Vrms

- Type 129 response frames sent with the following data for 3000ms:

Channel 1-16      Channel 17-32
RRRRRRRRRRRRRRR RRRRRRRRRRRRRR.  R = 120 Vrms, . = 0 Vrms
.....          .....          Y = 120 Vrms, . = 0 Vrms
.....          .....          G = 120 Vrms, . = 0 Vrms

- CMU output relay state = Fault
- Result = Pass

Testing Completed: Feb 24 2021 03:08 pm
No failures

```