# Partner: Denon
# Model: S-301
# Device Type: DVD Home Theater

## GENERAL INFORMATION

| | |
|---|---|
| **SIMPLWINDOWS NAME:** | Denon S-301 |
| **CATEGORY:** | DVD |
| **VERSION:** | 1 |
| **SUMMARY:** | Controls all of the standard functions and provides true feedback |
| **GENERAL NOTES:** | This module will control all of the standard functions on a Denon S-301 DVD Home Theater System. True feedback is provided by the unit. Functions provided include main zone control, iPod and external MP3 player control, surround mode selection, surround speaker level adjustments, and tuner band/preset selection.<br>Note that for surro und mode selection, certain selections are only valid while certain sources are selected. So choosing a particular surround mode may actually cause a slightly different mode to be activated on the Denon system. However, since true feedback is provided, the actual surround mode currently active will be reflected on the output of this module.<br>Note : Real-time DVD transport feedback is provided by setting Poll_Enable = to 1. Polling interval is .25 seconds. Typically, you would set Poll_Enable = 1 only when page is displayed. |
| **CRESTRON HARDWARE REQUIRED:** | CNCOMH-2, CNXCOM, ST-COM |
| **SETUP OF CRESTRON HARDWARE:** | RS232<br>Baud: 9600<br>Parity: n<br>Data Bits: 8<br>Stop Bits: 1 |
| **VENDOR FIRMWARE:** | None |
| **VENDOR SETUP:** | None |
| **CABLE DIAGRAM:** | CNSP-121 |

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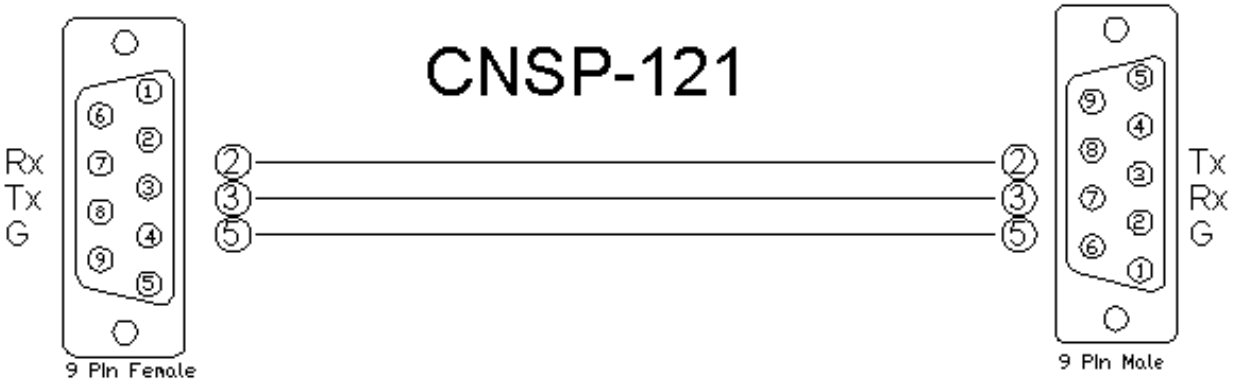


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## CONTROL:

| | | |
|---|---|---|
| **From_Device$** | S | Serial signal to be routed from a 2-way serial com port. |
| **Power_On/Off/Toggle** | D | Pulse to turn the receivers main power on and off. |
| **Main_Volume_Up/Down** | D | Press and hold to adjust the main zone's volume level. |
| **Main_Volume_Mute_On/Off/Toggle** | D | Pulse to turn the main zone's volume mute on and off. |
| **Input_*** | D | Pulse to select the input. |
| **<Surround_Modes>** | D | Pulse to select the surround mode. |
| **<Channel>_Up/Down** | D | Press and hold to adjust the channel's gain up and down. |
| **Auto/PCM/DTS/ANALOG/External_In** | D | Pulse to select the digital audio input. |
| **Cinema_EQ_On/Off** | D | Pulse to turn the Cinema EQ on and off. |
| **Mode_Set_To_*** | D | Pulse to set the mode. |
| **Tuner_Band_AM/FM** | D | Pulse to set the tuning band. |
| **Tuning_Mode_Auto/Manual** | D | Pulse to set the tuning to auto tune or manual tune. |
| **Tuner_Next/Previous_Preset** | D | Pulse to step through the tuner presets. |
| **Tuner_Preset_*** | D | Pulse to select the desired preset. |
| **Tuner_Frequency_Up/Down** | D | Press and hold to adjust the tuner frequency. |
| **DVD_*** | D | Pulse to select the DVD transport function. |
| **iPod_*** | D | Pulse to select the iPod transport function. |
| **Key_*** | D | Pulse to select the DVD location by jump function. |
| **Jump** | D | Pulse to jump to the DVD location by jump function. |
| **Subtitle_+/-** | D | Pulse to advance/decrease DVD subtitle function. |
| **DVD_Title_Enable** | D | Pulse to choose keyboard entry for Title preceding a jump. |

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| | | |
|---|---|---|
| **DVD_Chapter_Enable** | D | Pulse to choose keyboard entry for Chapter preceding a jump. |

## FEEDBACK:

| | | |
|---|---|---|
| **To_Device$** | S | Serial signal to be routed to a 2-way serial com port. |
| **Power_On/Off_Fb** | D | High to indicate the current power state of the unit. |
| **Main_Volume_Bar** | A | Analog value indicating the current main zone volume level. To be displayed using a bar graph on a touch panel. |
| **Main_Volume_Text$** | S | Serial signal indicating the current main zone volume level. |
| **Main_Volume_Mute_On/Off_Fb** | D | High to indicate the current main volume mute state. |
| **Input_*_Fb** | D | High to indicate the current main zone source. |
| **<Surround_Mode>_Fb** | D | High to indicate the currently active surround mode. |
| **<Channel>_Text$** | S | Serial signal indicating the current level for the channel |
| **Auto/PCM/DTS/ANALOG/_ Fb** | D | High to indicate the currently selected digital input. |
| **Cinema_EQ_On/Off_Fb** | D | High to indicate the current state of the cinema eq. |
| **Tuner_Band_*_Fb** | D | High to indicate the current tuner band. |
| **Tuning_Mode_*_Fb** | D | High to indicate the current tuning mode. |
| **Tuner_Preset_*_Fb** | D | High to indicate the currently selected tuner preset. |
| **Current_Tuner_Frequency_Text$** | S | Serial signal indicating the current tuner frequency. |
| **Disc_Type$** | S | Serial signal indicating the current disc type. |
| **Audio_Format_Code$** | S | Serial signal indicating the audio type. |
| **Audio_Channel_Code$** | S | Serial signal indicating the audio channel type. |
| **Dialog_Code$** | S | Serial signal indicating the audio dialog type. |
| **Subtitle_Code$** | S | Serial signal indicating the subtitle type. |

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| | | |
|---|---|---|
| **Angle_Code$** | S | Serial signal indicating the angle type. |
| **Status_Code $** | S | Serial signal indicating the disc status type. |
| **Play_Mode_Code$** | S | Serial signal indicating the play mode status type. |
| **Title_Key_Value** | A | Analog signal indicating title or group number. |
| **Chapter_Key_Value** | A | Analog signal indicating chapter or track number. |
| **Time_Mode$** | S | Serial signal indicating time mode type. |
| **Elapsed_Time$** | S | Serial signal indicating time elapsed. |
| **HDMI_Format$** | S | Serial signal indicating HDMI format type. |
| **DVI/HDMI_Video_Setup$** | S | Serial signal indicating DVI/HDMI Video format type. |
| **Title$** | S | Serial signal indicating current title/group. |
| **Chapter$** | S | Serial signal indicating current chapter/track. |

## TESTING:

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|---|---|
| **OPS USED FOR TESTING:** | PRO2 Cntrl Eng [v3.137 (Release)] |
| **SIMPL WINDOWS USED FOR TESTING:** | SIMPL 2.07.24 |
| **CRES DB USED FOR TESTING:** | 18.0.8 |
| **SYMBOL LIBRARY USED FOR TESTING:** | 381 |
| **SAMPLE PROGRAM:** | Denon S-301 Demo Pro2.smw |
| **REVISION HISTORY:** | V. 1.0 |

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