Partner: Denon
Model: AVR-3805 & AVR-2805
Device Type: Receiver

GENERAL INFORMATION

SIMPLWINDOWS NAME:	Denon AVR-2805 + AVR-3805
CATEGORY:	Receiver/Processor
VERSION:	1.0
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 AVR-2805/3805 receiver. True feedback is provided by the receiver. Functions provided include main zone control as well as zone 2, zone 3 and record zone source selection, surround mode selection, surround speaker level adjustments, and tuner band/preset selection. Note that for surround 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. Note that some functions are not valid on the AVR2805. This includes the zone 3 commands and some of the surround modes.
CRESTRON HARDWARE REQUIRED:	CNXCOM, ST-COM, C2-COM
SETUP OF CRESTRON HARDWARE:	RS232 Baud: 9600 Parity: None Data Bits: 8 Stop Bits: 1
VENDOR FIRMWARE:	None
VENDOR SETUP:	None
CABLE DIAGRAM:	CNSP-121

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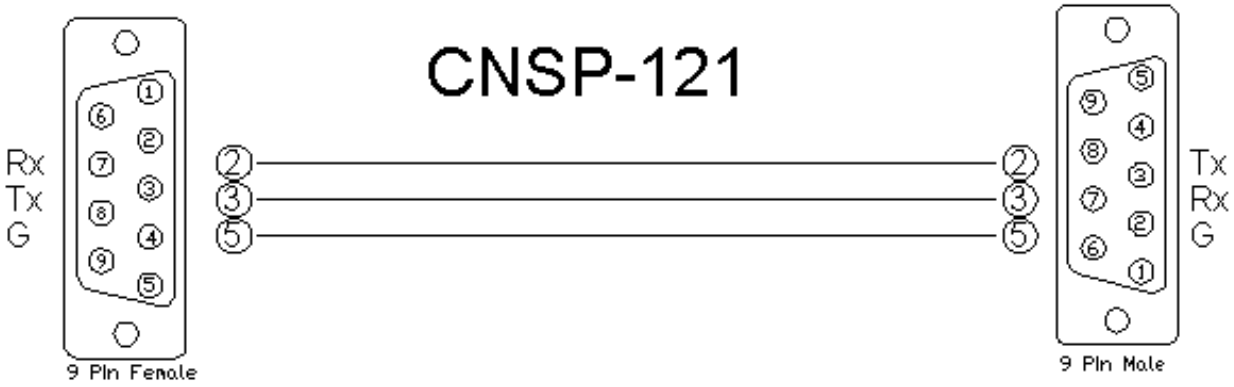

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CONTROL:

Power_On/Off/Toggle	D	Pulse to turn the receiver's 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.
Main_Zone_On/Off	D	Pulse to turn the main zone on and off.
<Surround_Modes>	D	Pulse to select the surround mode for the main zone.
<Channel>_Up/Down	D	Press and hold to adjust the channels gain up and down.
Auto/PCM/DTS/ANALOG/External_In	D	Pulse to select the digital audio input.
Video_Input_*	D	Pulse to select the video break source. This will not change the audio input.
Zone_*_On/Off	D	Pulse to turn the zone on and off.
Zone_*_Volume_Up/Down	D	Press and hold to adjust the zone's volume level.
Zone_*_<Input>	D	Pulse to select the input for each zone.
Tone_Defeat_On/Off	D	Pulse to turn the tone defeat on and off.
Rear_Surround_*	D	Pulse to select the rear surround speaker mode.
Cinema_EQ_On/Off	D	Pulse to turn the Cinema EQ on and off.
Mode_Set_To_*	D	Pulse to set the mode.
Record_*	D	Pulse to select the record output source.
Tuner_Band_AM/FM	D	Pulse to set the tuner's 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.

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Tuner_Frequency_Up/Down	D	Press and hold to adjust the tuner frequency.
From_Device$	S	Serial signal to be routed from a 2-way serial com port.

FEEDBACK:

Power_On/Off_Fb	D	High to indicate the current power state of the receiver.
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.
Main_Zone_On/Off_Fb	D	High to indicate the current main zone power state.
<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/External_In_Fb	D	High to indicate the currently selected digital input.
Video_Input_*_Fb	D	High to indicate the currently selected video break away input. These will be low if the video and audio input are the same.
Zone_*_On/Off_Fb	D	High to indicate the current power state of the zone.
Zone_*_Volume_Bar	A	Analog value indicating the current volume level for the zone. To be displayed using a bar graph on a touch panel.
Zone_*_Volume_Text$	S	Serial signal indicating the current volume level for the zone.
Zone_*_<input>_Fb	D	High to indicate the currently selected source for the zone.
Tone_Defeat_On/Off_Fb	D	High to indicate the current state of the tone defeat.
Rear_Surround_*_Fb	D	High to indicate the current mode for the rear surround speakers.
Cinema_EQ_On/Off_Fb	D	High to indicate the current state of the cinema eq.

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Record_*_Fb	D	High to indicate currently selected source for the record output.
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.
To_Device$	S	Serial signal to be routed to a 2-way serial com port.

TESTING:

OPS USED FOR TESTING:	PRO2: 3.137 CNMSX-Pro: 5.14.02x
COMPILER USED FOR TESTING:	2.05.22
SAMPLE PROGRAM:	Denon AVR-2805 + AVR-3805 Demo
REVISION HISTORY:	V. 1.0

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