

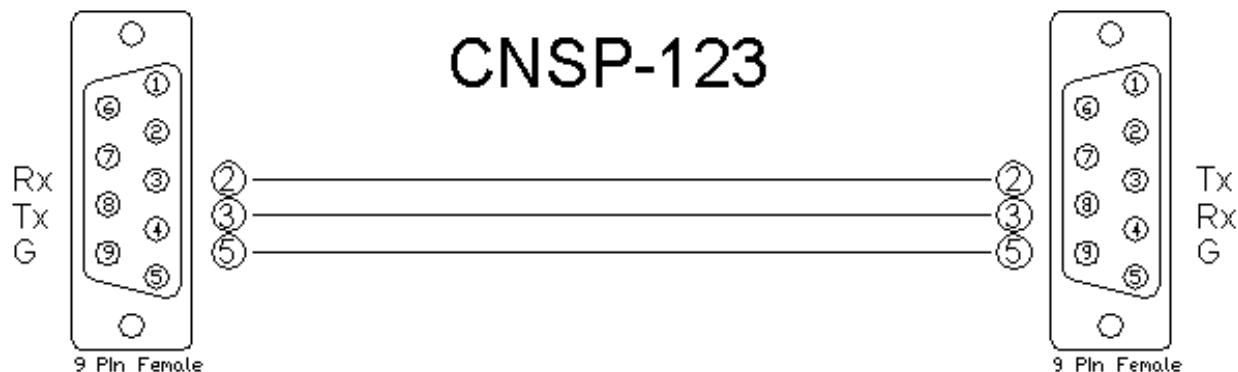
Partner: Marantz
Model: SR9600
Device Type: Surround Receiver



GENERAL INFORMATION

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| SIMPLWINDOWS NAME: | Marantz SR9600 |
| CATEGORY: | Receiver/Processor |
| VERSION: | V1.0 |
| SUMMARY: | This module controls and provides true feedback for the Marantz SR9600. |
| GENERAL NOTES: | <p>This module provides control for both zones on the SR9600. It also provides true feedback.</p> <p>NOTE: IN THE PREFERENCES MENU, YOU MUST SET THE STBY MODE TO NORMAL. IF YOU DO NOT CHANGE THIS SETTING, YOU WILL NOT BE ABLE TO TURN THE RECEIVER ON VIA RS232.</p> <p>NOTE: THIS MODULE IS FOR 2 SERIES PROCESSORS ONLY.</p> |
| CRESTRON HARDWARE REQUIRED: | C2COM, ST-COM |
| SETUP OF CRESTRON HARDWARE: | <p>RS232</p> <p>Baud: 9600</p> <p>Parity: None</p> <p>Data Bits: 8</p> <p>Stop Bits: 1</p> |
| VENDOR FIRMWARE: | None |
| VENDOR SETUP: | IN THE PREFERENCES MENU, YOU MUST SET THE STBY MODE TO NORMAL. IF YOU DO NOT CHANGE THIS SETTING, YOU WILL NOT BE ABLE TO TURN THE RECEIVER ON VIA RS232. |
| CABLE DIAGRAM: | CNSP-123 |

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CONTROL:

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| RX\$ | S | Serial signal to be routed from a 2-way serial com port. |
| power_on/off/toggle | D | Pulse to turn the receiver on and off. |
| input_* | D | Pulse to select the input. |
| input_mode_cyclic/auto | D | Pulse to set the input mode. |
| input_*_fixed | D | Pulse to set the input type to digital fixed or analog fixed. |
| volume_up/down | D | Press and hold to adjust the volume. |
| audio_mute_on/off/toggle | D | Pulse to turn the volume mute on and off. |
| volume_value(-80d_to18d) | A | Analog signal to allow for direct volume level setting. |
| volume_set_direct | D | Pulse to set the volume to the level value on volume_value(-80d_to_18d) immediately. |
| volume_set_gradual | D | Pulse to set the volume to the level value on volume_value(-80d_to_18d) gradually. |
| attenuator_on/off/toggle | D | Pulse to turn the attenuator on and off. |
| bass/treble_up/down | D | Pulse to adjust the bass or treble. |
| video_mute_on/off/toggle | D | Pulse to turn the video mute on and off. |
| display_cyclic/input/level/auto_off/off | D | Pulse to set the receiver's front panel to input, surround, auto off, or off. |

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| speaker_*_on/off/toggle | D | Pulse to turn speaker a or b on and off. |
| sleep_timer_off | D | Pulse to turn the sleep timer off. |
| sleep_timer_*min | D | Pulse to set the sleep timer for the desired number of minutes. |
| sleep_set_cyclic | D | Pulse to cycle the sleep timer. |
| osd_on/off/toggle | D | Pulse to turn the on screen display on and off. |
| night_mode_on/off/toggle | D | Pulse to turn the night mode on and off. |
| DC_trig1/2/3/4_on/off | D | Pulse to turn the DC trigger 1, 2, 3 or 4 on and off. |
| re-EQ_on/off/toggle | D | Pulse to turn the re-EQ on and off. |
| bilingual_main/sub/main+sub/cyclic | D | Pulse to set the bilingual mode. |
| setup_menu_on/off/toggle | D | Pulse to turn the set up menu on and off. |
| menu_cursor_enter/up/down/left/right | D | Pulse to control the cursor. |
| surr._mode_change_next/prev | D | Pulse to go the next or previous surround mode. |
| surr._* | D | Pulse to select the surround mode. |
| surr._THX_on/off/toggle | D | Pulse to turn the THX mode on and off. |
| dolby_HP_change | D | Pulse to select the Dolby headphone mode. |
| dolby_HP_* | D | Pulse to directly select the Dolby headphone mode. |
| test_tone_on/off/toggle | D | Pulse to turn the test tone mode on and off. |
| test_tone_channel_next/prev | D | Pulse to change the test tone oscillation channel. |
| channel_select_disp_on/off/toggle | D | Pulse to turn the channel select display on and off. |
| lip_sync_off | D | Pulse to turn the lip sync adjustment off. |
| lip_sync_up/down | D | Pulse to adjust the lip sync delay by 10 msec. |
| tuner*_mode_auto_stereo/mono/toggle | D | Pulse to set the FM tuner to auto stereo or mono. |

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| tuner*_freq_up/down | D | Press and hold to adjust the tuner frequency. |
| tuner*_auto_* | D | Pulse to start and stop the tuner auto tune function. |
| tuner*_preset_up/down | D | Pulse to step to the next or previous tuner preset. |
| tuner*_preset_scan_start/stop | D | Pulse to start and stop the tuner preset scan function. |
| tuner*_key* | D | Pulse to enter either the tuner frequency or tuner preset number. You must pulse the tuner_freq_num_direct_set input or the tuner_preset_num_call input. |
| tuner*_preset_num_call | D | Pulse to select the preset number entered using the tuner_key* inputs. |
| tuner*_freq_num_direct_set | D | Pulse to select the tuner frequency entered using the tuner_key* inputs. |
| tuner*_rds_disp(only_EU_Ver.) | D | Pulse to turn the rds on and off. Only available on European models. |
| tuner*_rds_pty(only_EU_Ver.) | D | Pulse to turn the rds pty function on and off. Only available on European models. |
| mr*_power_on/off_toggle | D | Pulse to turn the multi-room power on and off. |
| ms*_power_on/off/toggle | D | Pulse to turn the multi-room speaker on and off. |
| mr*_input_* | D | Pulse to select the multi-room input. |
| mr*_volume_up/down | D | Press and hold to adjust the multi-room volume. |
| mr*_audio_mute_on/off/toggle | D | Pulse to turn the multi-room volume mute on and off. |
| mr*_osd_on/off | D | Pulse to turn the multi-room on screen display on and off. |
| mr*_sleep_timer_off | D | Pulse to turn the multi-room sleep timer off. |
| mr*_sleep_timer_*min | D | Pulse to set the multi-room sleep timer for the desired number of minutes. |
| mr*_sleep_set_cyclic | D | Pulse to cycle the sleep timer. |
| mr*_tuner*_mode_auto_stereo/mono/toggle | D | Pulse to set the multi-room FM tuner to auto stereo or mono. |
| mr*_tuner*_freq_up/down | D | Press and hold to adjust the multi-room tuner. |
| mr*_tuner*_auto_* | D | Pulse to start and stop the tuner auto tune function. |
| mr*_tuner*_preset_up/down | D | Pulse to step to the next or previous preset. |

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| mr*_tuner*_preset_scan_start/stop | D | Pulse to start and stop the preset scan function. |
| mr*_tuner*_preset_num_call | D | Pulse to call the tuner preset number. |
| mr*_tuner*_freq_num_direct_set | D | Pulse to directly set the tuner frequency. |
| auto_status_on/off | D | Pulse to turn the auto status function on and off. |

FEEDBACK:

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| TX\$ | 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 for the main zone. |
| video_input_*_fb | D | High to indicate the currently selected video input. |
| audio_input_*_fb | D | High to indicate the currently selected audio input. |
| input_mode_analog/digital_autoselected_fb | D | High to indicate the currently auto selected input type. |
| input_analog/digital_fixed_fb | D | High to indicate the currently manually selected input type. |
| volume_bar | A | Analog value indicating the current volume level. To be displayed using a bar graph on a touch panel. |
| volume\$ | S | Serial signal indicating the current volume level in dB. This is the same as the front panel of the receiver. |
| audio_mute_on/off_fb | D | High to indicate the current state of the volume mute. |
| attenuator_on/off_fb | D | High to indicate the current state of the attenuator function. |
| bass/treble_bar | A | Analog values indicating the current bass or treble level. To be displayed using bar graphs on a touch panel. |
| bass/treble\$ | S | Serial signal indicating the current bass and treble level. This is the same as the front panel of the receiver. |
| video_mute_on/off_fb | D | High to indicate the current state of the video mute. |
| display_input/level/auto_off/off_fb | D | High to indicate the currently selected front panel display mode. |
| speaker_*_on/off_fb | D | High to indicate the current state for speakers a and b. |

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| sleep_timer_off_fb | D | High to indicate that the sleep timer is off. |
| sleep_timer_bar | A | Analog value indicating the time remaining before the sleep mode will turn the receiver off. To be displayed using a bar graph on a touch panel. |
| sleep\$ | S | Serial signal indicating the sleep time remaining. |
| osd_on/off_fb | D | High to indicate the current state of the on screen display. |
| night_mode_on/off_fb | D | High to indicate the current state of the night mode. |
| DC_trig1/2/3/4_on/off_fb | D | High to indicate the current state of the DC triggers 1, 2, 3 & 4. |
| re-EQ_on/off_fb | D | High to indicate the current state of the re-EQ. |
| bilingual_main/sub/main+sub_fb | D | High to indicate the current state of the bilingual function. |
| setup_menu_on/off_fb | D | High to indicate the current state of the setup menu. |
| surr._*_fb | D | High to indicate the currently selected surround mode. |
| dolby_HP*_fb | D | High to indicate the currently active headphone mode. |
| test_tone_on/off_fb | D | High to indicate the current state of the test tone. |
| test_tone_auto/manual_mode_fb | D | High to indicate the current test tone mode. |
| test_tone_ch*_fb | D | High to indicate the current channel of test tone. |
| channel_select_disp._on/off_fb | D | High to indicate the current state of the channel select display. |
| lip_sync_off_fb | D | High to indicate that the lip sync function is currently off. |
| lip_sync_bar | A | Analog value indicating the current lip sync delay. To be displayed using a bar graph on a touch panel. |
| lip_sync\$ | S | Serial signal indicating the current lip sync delay. |
| tuner*_stereo/mono_fb | D | High to indicate the current stereo/mono mode of the tuner. |
| tuner*_frequency_fm | A | Analog value indicating the currently tuned FM channel. To be display using a digital gauge in the format XXX.XX. |
| tuner*_frequency_am | A | Analog value indicating the currently tunes AM channel. To be displayed using a digital gauge in the format XXXX. |

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| tuner*_freq.\$ | S | Serial signal indicating the current tuner frequency. |
| tuner*_preset_number | A | Analog value indicating the currently selected tuner preset number. |
| tuner*_keyin_value | A | Analog value indicating the current value entered using the tuner_key* inputs. |
| mr*_power_on/off_fb | D | High to indicate the current power state of the multi-room zone. |
| ms*_power_on/off_fb | D | High to indicate the current power state of the multi-room speaker. |
| mr*_video_input_*_fb | D | High to indicate the currently selected video input for the multi-room zone. |
| mr*_audio_input_*_fb | D | High to indicate the currently selected audio input for the multi-room zone. |
| mr*_volume_bar | A | Analog value indicating the current volume level for the multi-room zone. To be displayed using a bar graph on a touch panel. |
| mr*_volume\$ | S | Serial signal indicating the current volume level for the multi-room zone. This is the same as on the front panel of the receiver. |
| mr*_audio_mute_on/off_fb | D | High to indicate the current state of the multi-room volume mute. |
| mr*_volume_variable/fixed_fb | D | High to indicate whether the multi-room volume is variable or fixed. |
| mr*_osd_on/off_fb | D | High to indicate the current state of the multi-room zone on screen display. |
| mr*_sleep_timer_off_fb | D | High to indicate that the multi-room sleep timer is off. |
| mr*_sleep_timer_bar | A | Analog value indicating the time remaining before the sleep mode will turn the multi-room zone off. To be displayed using a bar graph on a touch panel. |
| mr*_sleep\$ | S | Serial signal indicating the sleep time remaining for the multi-room zone. |
| mr*_tuner*_stereo/mono_fb | D | High to indicate the current multi-room tuner stereo/mono mode. |
| mr*_tuner*_frequency_fm | A | Analog value indicating the currently tuned FM channel for the multi-room tuner. To be display using a digital gauge in the format XXX.XX. |
| mr*_tuner*_frequency_am | A | Analog value indicating the currently tunes AM channel for the multi-room tuner. To be displayed using a digital gauge in the format XXXX. |
| mr*_tuner*_freq.\$ | S | Serial signal indicating the current tuner frequency. |
| mr*_tuner*_preset_number | A | Analog value indicating the currently selected tuner preset number for the multi-room tuner. |

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| tuner*_busy__fb | D | High to indicate that the selected tuner is busy. |
| auto_status_on/off_fb | D | High to indicate the current state of the auto status function. |
| signal_*_fb | D | High to indicate the type of digital audio signal received. |
| sampling_*_fb | D | High to indicate the sampling rate of the received digital signal. |
| ch_status_*_fb | D | High to indicate the active channels for the received digital signal. |

TESTING:

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| OPS USED FOR TESTING: | PRO2: 3.137 |
| COMPILER USED FOR TESTING: | 2.06.20 |
| SAMPLE PROGRAM: | Marantz SR9600 Demo PRO2 |
| REVISION HISTORY: | V. 1.0 |