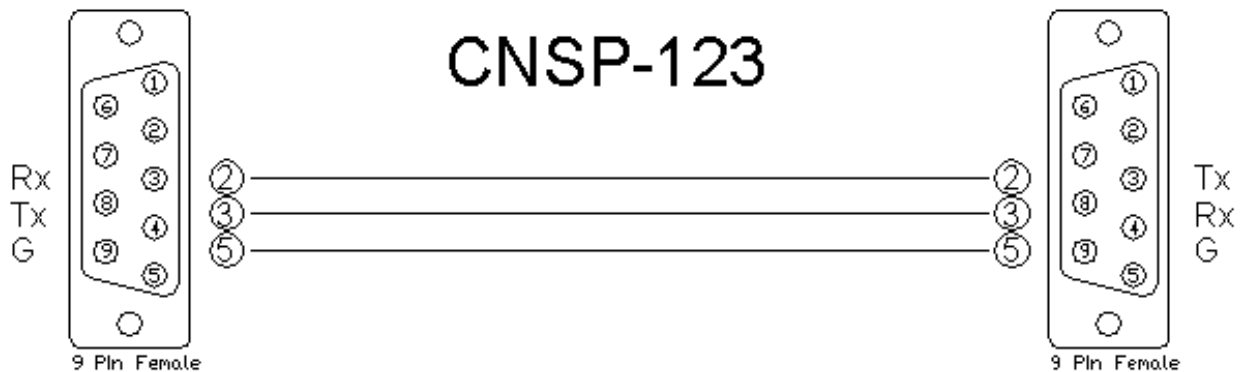


Partner: Marantz
 Model: SR8002
 Device Type: AV Surround Receiver



GENERAL INFORMATION

SIMPLWINDOWS NAME:	Marantz SR8002
CATEGORY:	Audio 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 Marantz SR8002 AV Surround Receiver. The unit provides true feedback. Functions provided include main zone control, zone 2 control, menu selection and tuner band/preset selection. Note: XM Tuner controls require Main Power On to function correctly. FM tuning needs 5 digits.
CRESTRON HARDWARE REQUIRED:	ST-COM, C2I-COM6, C2COM-2/3
SETUP OF CRESTRON HARDWARE:	RS232 Baud: 9600 Parity: N Data Bits: 8 Stop Bits: 1
VENDOR FIRMWARE:	N/A
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:

power_on/off/toggle	D	Pulse to turn the receiver's main power on and off.
<input>	D	Pulse to select the input.
input_7.1ch_on/off/toggle	D	Pulse to select the 7.1 channel input.
*_volume_up/down	D	Pulse to turn the zone's volume up and down.
*_audio_Mute_On/Off/Toggle	D	Pulse to turn the zone's audio mute on and off.
volume_value(-72d_to_18d)	A	Analog value indicating the current main volume level. To be displayed using a bar graph on a touch panel.
volume_set_direct	D	Pulse to set volume direct.
volume_set_gradual	D	Pulse to set volume gradual (from a ramp).
attenuator_on/off/toggle	D	Pulse to select the attenuation mode.
<Channel>_Up/Down	D	Press and hold to adjust the channel's bass/treble up and down.
video_mute_on/off/toggle	D	Pulse to select the video input.
IP_converter_enable/disable	D	Pulse to turn the IP converter on/off.
frontkey_lock/unlock	D	Pulse to turn the front lock on/off.
HDMI_out1/2/Toggle	D	Pulse to select the HDMI Input or toggle between them.
display_cyclic	D	Pulse to cycle display.
display_function	D	Pulse to select display function.
display_input_mode	D	Pulse to change display input mode.
display_surround_mode	D	Pulse to change display surround mode.
display_auto_off	D	Pulse to change display auto off mode.
display_off	D	Pulse to change display auto off mode to off.



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speaker_AB_cyclic	D	Pulse to cycle Speakers A and B.
speaker_A/B_on/off	D	Pulse to turn Speakers A and B on/off.
sleep_timer_off	D	Pulse to turn sleep timer off.
sleep_timer_*min	D	Pulse to adjust sleep timer.
night_mode_on/off	D	Pulse to change night mode on/off.
M-dax_high/low/off	D	Pulse to change M-DAX mode high/low/off.
DC_trig1_on/off	D	Pulse to set DC triggers 1 on/off.
DC_trig2_on/off	D	Pulse to set DC triggers 2 on/off.
EQ_Mode_*	D	Pulse to set EQ mode.
bilingual_main	D	Pulse for bilingual main.
bilingual_sub	D	Pulse for bilingual sub.
bilingual_main+sub	D	Pulse for bilingual main and sub.
bilingual_cyclic	D	Pulse for bilingual cycling.
setup_menu_on/off/toggle	D	Pulse to display/hide on screen menu.
menu_cursor_*	D	Pulse to navigate screen menu.
surr._mode_change_next/prev	D	Pulse to change surround modes up/down.
surr._*	D	Pulse to change surround modes discretely.
dolby_HP_change	D	Pulse to change HP mode.
dolby_HP_bypass	D	Pulse to change HP mode.
dolby_HP_mode1	D	Pulse to change HP mode.
dolby_HP_mode1+PL2mo	D	Pulse to change HP mode.
dolby_HP_mode1+PL2mu	D	Pulse to change HP mode.



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test_tone_on(auto_mode)	D	Pulse to change test tone auto mode.
test_tone_off	D	Pulse to change test tone off.
test_tone_toggle	D	Pulse to change test tone on/off.
test_tone_channel_next/prev	D	Pulse to change test tone up/down.
lip_sync_off	D	Pulse to disable lip sync function.
lip_sync_up	D	Pulse to change lip sync function in the up direction.
lip_sync_down	D	Pulse to change lip sync function in the down direction.
tuner_mode_hd_digital_auto	D	Pulse to set tuner mode to HD digital audio.
tuner_mode_auto_stereo	D	Pulse to set tuner mode to auto stereo.
tuner_mode_mono	D	Pulse to set tuner mode to mono.
tuner_mode_cyclic	D	Pulse to toggle tuner modes from stereo to mono.
tuner_freq_up/down	D	Pulse to change tuner frequency up/down.
tuner_auto_up/down/stop	D	Pulse to change tuner auto frequency up/down.
tuner_hd_freq_auto_up/down/stop	D	Pulse to change HD tuner auto frequency up/down.
tuner_preset_up/down	D	Pulse to change tuner preset up/down.
tuner_preset_scan_start/stop	D	Pulse to scan start/stop tuner presets.
tuner_preset_info_on/off/toggle	D	Pulse to display/hide tuner presets information.
tuner_key*	D	Pulse to direct enter a tuner key.
tuner_preset_num_call	D	Pulse to direct enter a preset tuner recall.
tuner_freq_num_direct_set	D	Pulse to direct enter a tuner frequency directly.
tuner_xm_disp.mode_normal	D	Pulse to change XM tuner display mode to normal.
tuner_xm_disp.mode_artist/song	D	Pulse to change XM tuner display mode to artist/song.



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tuner_xm_disp.mode_category	D	Pulse to change XM tuner display mode to category.
tuner_xm_disp.mode_status	D	Pulse to change XM tuner display mode to status.
tuner_xm_disp.mode_toggle	D	Pulse to change XM tuner display mode to toggle states.
tuner_xm_category_ch_up/down	D	Pulse to change XM tuner channels.
tuner_xm_category_next/prev	D	Pulse to change XM tuner categories.
tuner_xm_category_direct_set	D	Pulse to direct enter XM tuner categories.
component2out_select_main	D	Pulse to change to component2 output main.
component2out_select_multi	D	Pulse to change to component2 output multi.
mrA/B_power_on/off/toggle	D	Pulse to change power state for Zones 1 and 2 (called Multi rooms).
mrA/B_input_*	D	Pulse to change Zone 1 or 2 input sources.
mrA/B_volume_up/down	D	Pulse to change Zone 1 or 2 volume level.
mrA/B_audio_mute_on/off/toggle	D	Pulse to change Zone 1 or 2 volume mute status.
mrA/B_volume_variable/fixed	D	Pulse to change Zone 1 or 2 volume variable or fixed status.
mrA/B_stereo	D	Pulse to set Zone 1 or 2 stereo.
mrA/B_mono	D	Pulse to set Zone 1 or 2 mono.
mrA/B_stereo/mono	D	Pulse to toggle Zone 1 or 2 stereo/mono.
mrA/B_sleep_timer_off	D	Pulse to set Zone 1 or 2 sleep timer off.
mrA/B_sleep_timer_*min	D	Pulse to set Zone 1 or 2 sleep timer to different durations in minutes.
mrA/B_tuner_mode_auto_stereo	D	Pulse to set Zone 1 or 2 tuner mode to auto/stereo.
mrA/B_tuner_mode_mono	D	Pulse to set Zone 1 or 2 tuner mode to mono.
mrA/B_tuner_mode_toggle	D	Pulse to toggle Zone 1 or 2 tuner stereo/mono.
mrA/B_tuner_freq_up/down	D	Pulse to change Zone 1 or 2 tuner frequency up/down.



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mrA/B_tuner_auto_up/down/stop	D	Pulse to change Zone 1 or 2 auto up/down/stop.
MrA/B_tuner_hd_freq_auto_up/stop	D	Pulse to change Zone 1 or 2 HD frequency up/down/stop.
mrA/B_tuner_preset_up/down	D	Pulse to change Zone 1 or 2 preset up/down.
mrA/B_tuner_preset_scan_start/stop	D	Pulse to change Zone 1 or 2 preset scan start/stop.
mrA/B_tuner_key*	D	Pulse to direct enter Zone 1 or 2 tuner key.
mrA/B_tuner_preset_num_call	D	Pulse to direct enter Zone 1 or 2 preset.
mrA/B_tuner_freq_num_direct_set	D	Pulse to direct enter Zone 1 or 2 frequency number.
msA/B_power_on/off/toggle	D	Pulse to change power state for Zones 1 and 2 speakers (called Multi Speaker).
msA/B_volume_up/down	D	Pulse to change volume level for Zones 1 and 2 speakers (called Multi Speaker).
msA/B_audio_mute_on/off/toggle	D	Pulse to change volume mute for Zones 1 and 2 speakers (called Multi Speaker).
msA/B_volume_variable/fixed	D	Pulse to change volume variable/fixed state for Zones 1 and 2 speakers (called Multi Speaker).
auto_status_on/off	D	Pulse to change auto status on/off.
From_Device\$	S	Serial signal to be routed from a 2-way serial com port.

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FEEDBACK:

power_on/off_fb	D	High to indicate the current power state of the unit.
video_input_*_fb	D	High to indicate the current video input of the unit.
audio_input_*_fb	D	High to indicate the current audio input of the unit.
input_analog_fb	D	High to indicate the current analog status of audio input of the unit.
input_digital_fb	D	High to indicate the current digital status of audio input of the unit.
input_HDMI_fb	D	High to indicate the current input HDMI status of the unit.
volume_bar	A	Analog value indicating the current main zone volume level. To be displayed using a bar graph on a touch panel.
volume\$	S	Serial string representing volume level.
audio_mute_on/off_fb	D	High to indicate the current main volume mute state.
attenuator_on/off_fb	D	High to indicate the current attenuator on/off state.
bass/treble_bar	A	Analog value indicating the current main zone bass/treble level. To be displayed using a bar graph on a touch panel.
bass/treble\$	S	Serial string representing bass/treble level.
video_mute_on/off_fb	D	High to indicate the current video mute on/off state.
IP_converter_enable/disable_fb	D	High to indicate the current IP converter on/off state.
HDMI_out1/2_fb	D	High to indicate the current HDMI 1 or 2 output state.
HDMI_audio_through_fb	D	High to indicate the current HDMI audio through state.
HDMI_audio_enable_fb	D	High to indicate the current HDMI audio enable state.
display_function_fb	D	High to indicate the current display function state.
display_input_mode_fb	D	High to indicate the current display input mode state.
display_surround_mode_fb	D	High to indicate the current surround mode state.

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display_auto_off_fb	D	High to indicate the display's auto/off state.
display_off_fb	D	High to indicate the display's off state.
frontkey_lock/unlock_fb	D	High to indicate the display's front panel lock state.
speaker_A_on/off_fb	D	High to indicate the Speaker A's on/off state.
speaker_B_on/off_fb	D	High to indicate the Speaker B's on/off state.
sleep_timer_off_fb	D	High to indicate the sleep timer is off.
sleep_timer_bar	A	Analog value indicating the current sleep timer value in minutes. To be displayed using a bar graph on a touch panel.
sleep\$	S	Serial string data representing sleep time.
night_mode_on/off_fb	D	High to indicate the night mode is on/off.
M-dax_high/low/off_fb	D	High to indicate the MDAX mode is high/low/off.
EQ_mode_fb	D	High to indicate the EQ mode.
DC_trig1_on/off_fb	D	High to indicate the DC trigger 1 is on/off.
DC_trig2_on/off_fb	D	High to indicate the DC trigger 2 is on/off.
re-EQ_on/off_fb	D	High to indicate the RE-EQ mode.
bilingual_main_fb	D	High to indicate bilingual main.
bilingual_sub_fb	D	High to indicate bilingual sub.
bilingual_main+sub_fb	D	High to indicate bilingual main and sub.
setup_menu_on/off_fb	D	High to indicate setup menu on/off state.
surr._*_fb	D	High to indicate surround mode state.
dolby_HP*_fb	D	High to indicate Dolby HP mode state.
test_tone_on/off_fb	D	High to indicate test tone on/off state.
test_tone_auto_mode_fb	D	High to indicate test tone auto mode state.

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test_tone_manual_mode_fb	D	High to indicate test tone manual mode state.
test_tone_ch_*_fb	D	High to indicate test tone channel state.
lip_sync_off_fb	D	High to indicate lip sync off.
lip_sync_bar	A	Analog value indicating the current lip sync value. To be displayed using a bar graph on a touch panel.
lip_sync\$	S	Serial string representing lip sync level.
tuner_stereo/mono_fb	D	High to indicate tuner stereo/mono state.
tuner_frequency_fm/am	A	Analog value indicating the current tuner frequency value. To be displayed using a bar graph on a touch panel.
tuner_frequency_or_channel\$	S	Serial string representing frequency or channel.
tuner_hd_multicast_prog_num\$	S	Serial string representing HD multicast program number.
Tuner_HD_Category_Character\$	S	Serial string representing HD Category.
Tuner_HD_Channel_Character\$	S	Serial string representing HD Channel.
Tuner_HD_Artist_Character\$	S	Serial string representing HD Artist.
Tuner_HD_Song_Character\$	S	Serial string representing HD Song.
tuner_preset_number	A	Analog value indicating the current tuner preset value. To be displayed using a bar graph on a touch panel.
tuner_preset_info_on/off_fb	D	High to indicate tuner preset info on/off state.
tuner_keyin_value	A	Analog value indicating the current tuner key input value. To be displayed using a bar graph on a touch panel.
tuner_xm_disp.mode_normal_fb	D	High to indicate XM tuner display mode normal state.
tuner_xm_disp.mode_artist/song_fb	D	High to indicate XM tuner display mode artist song state.
tuner_xm_disp.mode_category_fb	D	High to indicate XM tuner display mode category state.
tuner_xm_disp.mode_status_fb	D	High to indicate XM tuner display mode status state.
tuner_xm_category_num\$	S	Serial string representing XM category number.

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tuner_xm_category_in_search_fb	D	High to indicate XM tuner category in search state.
tuner_xm_category_character\$	S	Serial string representing XM category.
tuner_xm_channel_character\$	S	Serial string representing XM channel.
tuner_xm_artist_character\$	S	Serial string representing XM artist.
tuner_xm_song_character\$	S	Serial string representing XM song.
xm_check_antenna_fb	D	High to indicate XM tuner antenna needs to be checked.
xm_signal_non_fb	D	High to indicate XM tuner antenna has no signal.
xm_signal_weak_fb	D	High to indicate XM tuner antenna has weak signal.
xm_signal_marginal_fb	D	High to indicate XM tuner antenna has marginal signal.
xm_signal_strong_fb	D	High to indicate XM tuner antenna has strong signal.
tuner_busy_on_Main_fb	D	High to indicate tuner busy.
component2out_select_main_fb	D	High to indicate component 2 out is main.
component2out_select_multi_fb	D	High to indicate component 2 out is multi.
mrA/B_power_on/off_fb	D	High to indicate Zone 1 and 2's power state.
mrA/B_video_input_*_fb	D	High to indicate Zone 1 and 2's video input state.
mrA/B_audio_input_*_fb	D	High to indicate Zone 1 and 2's audio input state.
mrA/B_volume_bar	A	Analog value indicating the current volume level value. To be displayed using a bar graph on a touch panel.
mrA/B_volume\$	S	Serial string representing volume.
mrA/B_audio_mute_on/off_fb	D	High to indicate Zone 1 and 2's audio mute on/off state.
mrA/B_volume_variable/fixed_fb	D	High to indicate Zone 1 and 2's audio volume fixed/variable state.
mrA/B_stereo/mono_fb	D	High to indicate Zone 1 and 2's audio stereo/mono state.
mrA/B_sleep_timer_off_fb	D	High to indicate Zone 1 and 2's sleep timer off state.

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mrA/B_sleep_timer_bar	A	Analog value indicating the current sleep timer level value for Zones 1 and 2. To be displayed using a bar graph on a touch panel
mrA/B_sleep\$	S	Serial string representing sleep time for Zones 1 and 2.
mrA/B_tuner_mode_hd/auto_stereo/mono_fb	D	High to indicate Zone 1 and 2's tuner mode HD/auto/stereo/mono state.
mrA/B_tuner_frequency_fm/am	A	Analog value indicating the current tuner FM/AM frequency value. To be displayed using a bar graph on a touch panel.
mrA/B_tuner_freq\$	S	Serial string representing tuner frequency for Zones 1 and 2.
MrA/B_tuner_hd_multicast_ch_num\$	S	Serial string representing HD tuner multicast channel for Zones 1 and 2.
mrA/B_tuner_preset_number	A	Analog value indicating the current tuner preset value. To be displayed using a bar graph on a touch panel.
mrA/B_tuner_keyin_value	A	Analog value indicating the current tuner keyboard entry value. To be displayed using a bar graph on a touch panel.
msA/B_power_on/off_fb	D	High to indicate Zone 1 and 2's speaker on/off state.
msA/B_volume_bar	A	Analog value indicating the current volume level for Zones 1 and 2 speakers. To be displayed using a bar graph on a touch panel.
msA/B_volume\$	S	Serial string representing volume level for Zones 1 and 2 speakers.
msA/B_volume_variable/fixed_fb	D	High to indicate Zone 1 and 2's volume variable/fixed state.
auto_status_on/off_fb	D	High to indicate auto status on/off state.
signal_*_fb	D	High to indicate signal state.
sampling_out_range_fb	D	High to indicate sampling rate out of range state.
sampling*_k_fb	D	High to indicate sampling rate in KHz state.
ch_status_*_fb	D	High to indicate channel status state.
To_Device\$	S	Serial signal to be routed to a 2-way serial com port.



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TESTING:

OPS USED FOR TESTING:	3.155.1240
SIMPL WINDOWS USED FOR TESTING:	2.08.44
CRES DB USED FOR TESTING:	18.9.1
SYMBOL LIBRARY USED FOR TESTING:	508
SAMPLE PROGRAM:	Marantz SR8002 Demo Pro2
REVISION HISTORY:	V. 1.0