

Partner: Anthem
Model: MRX-700
Device Type: Receiver



GENERAL INFORMATION

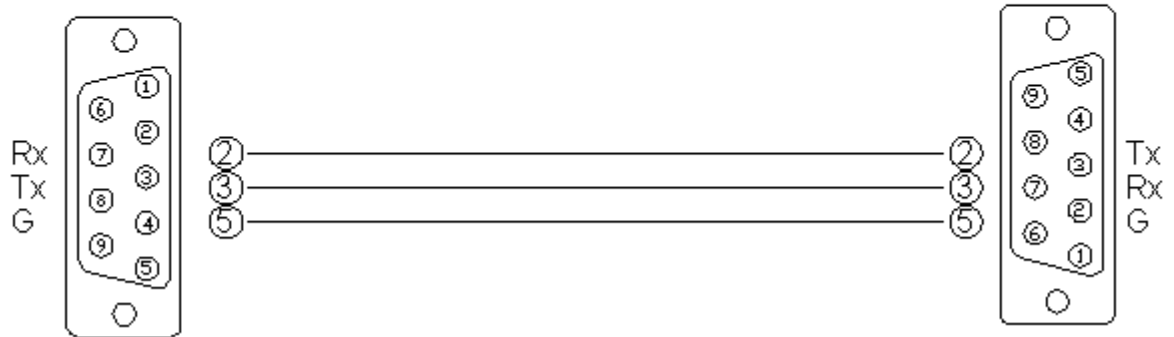
SIMPLWINDOWS NAME:	Anthem MRX-700 RS232
CATEGORY:	Receiver
VERSION:	1.0
SUMMARY:	This module provides RS-232 control and feedback of the Anthem MRX-700 Receiver.
GENERAL NOTES:	<p>This module works on all Anthem MRX-300, MRX-500 and MRX-700 model receivers. Please note that the receiver does not provide any metadata for controlling its "media" sources (iPod, USB or Internet Radio). All controls for those sources are via on-screen menu navigation (up, down, left, right and select).</p> <p>Also note that the receiver must be set up for specific audio presets in order to change the 2-channel and multi-channel decoder type. Choosing "Last Used" in the setup menu allows the most options, however, depending on the incoming signal type, the result of pressing any of the "Main_5.1_Surround_Mode*" inputs may still result in "none" as the feedback output that gets latched.</p> <p>The receiver takes about 8-10 seconds from power on until it will accept an input command, but this module has logic built in so that there is no need to power on first. Pressing any input command for main zone or zone 2 will cause the receiver to turn on, wait 9 seconds, and then the input commands are sent.</p>
CRESTRON HARDWARE REQUIRED:	C2I-COM, ST-COM, C2-COM-* or CNX-COM2
SETUP OF CRESTRON HARDWARE:	RS232 Baud:115200 Parity: None Data Bits: 8 Stop Bits: 1
VENDOR FIRMWARE:	50.12
VENDOR SETUP:	N/A

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CNSP-121

**CABLE
DIAGRAM:**



CONTROL:

Main_Power_<On/Off/Toggle>	D	Pulse to turn the receiver's main zone on or off.
Main_Input*	D	Pulse to select desired input for the main zone.
Main_Volume_In	A	Create direct volume level (0-100%) in main zone from slider output or analog preset.
Main_Volume*	D	Hold high to increase or decrease volume level .
Main_Mute_<On/Off/Toggle>	D	Pulse to mute/unmute the audio in main zone.
Zone_2_<On/Off/Toggle>	D	Pulse to turn the receiver's zone 2 on or off.
Zone_2_Input_*	D	Pulse to select desired input for zone 2.
Zone_2_Volume_In	A	Create direct volume level (0-100%) in zone 2 from slider output or analog preset.
Zone_2_Mute_<On/Off/Toggle>	D	Pulse to mute/unmute the audio in zone 2.
Main_2CH_Surround_Mode_*	D	Pulse to select a different surround mode in the main zone for an incoming 2-channel source.

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Main_5.1_Surround_Mode_*	D	Pulse to select a different surround mode in the main zone for an incoming multi-channel source.
Main_Sleep_Timer_*	D	Pulse to select the amount of time before the main zone turns off.
Zone_2_Sleep_Timer_*	D	Pulse to select the amount of time before zone 2 turns off.
Setup_Menu_*	D	Pulse to navigate the on-screen setup menu.
Trigger_Control_From_*	D	Pulse to change whether the 12V trigger output on back is controlled via RS-232 or from the setup menu.
Trigger_<On/Off>	D	Pulse to turn the 12V trigger port on/off.
Media_Menu_*	D	Pulse to navigate the on-screen menu for controlling the “media” sources (iPod, USB or Internet Radio).
Tuner_FM_<Up/Down>	D	Pulse to increase/decrease the FM station. Will switch to FM if it is on AM.
Tuner_AM_<Up/Down>	D	Pulse to increase/decrease the AM station. Will switch to AM if it is on FM.
Tuner_FM_Preset_*	D	Pulse to select desired radio preset station (if stored)
From_Device	S	Serial data signal to be routed from a 2 way com port.

FEEDBACK:

Main_Power_Is_<On/Off>	D	Latches high to indicate current power status of the main zone.
Main_<Warming_Up/Cooling_Down>_Sub	D	Latches high to indicate that the main zone is warming up or cooling down. Used to hold up a subpage to indicate receiver is busy.
Main_Input_Is_*	D	Latches high to indicate the currently selected input in the main zone.
Main_Volume_Gauge_*	A	Displays the current volume level of the main zone from 0-100%.
Main_Mute_Is_<On/Off>	D	Latches high to indicate that the main zone is muted/not muted.
Zone_2_Power_Is_<On/Off>	D	Latches high to indicate current power status of zone 2.
Main_<Warming_Up/Cooling_Down>_Sub	D	Latches high to indicate that zone 2 is warming up or cooling down. Used to hold up a subpage to indicate receiver is busy.
Zone_2_Input_Is_*	D	Latches high to indicate the currently selected input in zone 2.
Zone_2_Volume_Gauge_*	A	Displays the current volume level of zone 2 from 0-100%.

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Zone_2_Mute_Is_<On/Off>	A	Latches high to indicate that zone 2 is muted/not muted.
Main_2CH_Decoder_Is_*	D	Latches high to indicate which surround mode is selected for a stereo/2-channel source.
Main_6CH_Decoder_Is_*	D	Latches high to indicate which surround mode is selected for a multi-channel source (5.1/6.1/7.1).
Decoder_Signal_Is_*	D	Latches high to indicate the detected type and number of channels on the current source.
Decoder_Status	S	Text output of the type and number of channels on the current source.
FM_Station	S	Text output of the current FM station when tuner is selected in either zone.
AM_Station	S	Text output of the current AM station when tuner is selected in either zone.
To_Device	S	Serial data signal to be routed to a 2 way com port.

TESTING:

OPS USED FOR TESTING:	V.1.002.00
SIMPL WINDOWS USED FOR TESTING:	3.11.06
DEVICE DB USED FOR TESTING:	40.01.004.00
CRES DB USED FOR TESTING:	30.01.004.00
SYMBOL LIBRARY USED FOR TESTING:	790
SAMPLE PROGRAM:	Anthem MRX-700 RS232 v1.0 Demo MC3.smw
REVISION HISTORY:	v1.0 – Initial Release