

SIMPLWINDOWS NAME: Rotel RA-1070/RC-1090 Amplifier

CATEGORY: Receiver/Processor

VERSION: 1.0

SUMMARY: Controls and responds to amp front panel control buttons.

GENERAL NOTES: This module gives access to all front panel functions of Rotel integrated amp. The power control is a standby function. If power control is wished to be toggled on and off then, a CNPC1-A may be used along with a current sensor for positive feedback. This macro will output the text representation of the Rotel integrated amp on any two-way touchpanel.

NOTE: The volume control does not provide 2 way communications, the volume mute is a toggling function exclusive to the volume up and down.

THE VOLUME UP AND DOWN DO NOT RELEASE THE MUTE

CRESTRON HARDWARE: None

SETUP OF CRESTRON HARDWARE: Use the RS-232 port on the back of unit. Make sure the proper cable is made or acquired to ensure communication. Protocol is as follows:

Baud Rate - 4800
 Parity - None
 Data Bits - 8
 Stop Bits - 1
 No Handshaking

VENDOR FIRMWARE: None

VENDOR SETUP: Use the RS232 port on the back of unit. Make sure the proper cable is made or acquired to ensure communication.

CABLE NUMBER: CNSP-636

CABLE WIRING: This cable uses a 8-way cable, an RJ45 connector and a 9-way D-type female connector.

Rotel	to	Crestron
RJ45	to	9 pin female D
Pin1	to	No Connection
Pin2	to	No Connection
Pin3	to	Pin2
Pin4 and Pin6	to	Pin5
Pin5	to	Pin3
Pin7	to	No Connection
Pin8	to	No Connection

CONTROL:

POWER_ON Connect from touchpanel (Force out of standby)

POWER_OFF Connect from touchpanel (Force to standby)

POWER_TOGGLE Connect from touchpanel (standby on/off)

LISTEN_PHONO Connect from touchpanel (connects phono to main outs)

LISTEN-CD Connect from touchpanel (connects cd to main outs)

Connect from touchpanel (connects tuner to main

LISTEN_TUNER	outs)
LISTEN_VIDEO	Connect from touchpanel (connects video to main outs)
LISTEN_AUX_1	Connect from touchpanel (connects aux 1 to main outs)
LISTEN_AUX_2	Connect from touchpanel (connects aux 2 to main outs)
LISTEN_TAPE_1	Connect from touchpanel (connects tape 1 to main outs)
LISTEN_TAPE-2	Connect from touchpanel (connects tape 2 to main outs)
RECORD_PHONO	Connect from touchpanel (connects phono to main outs)
RECORD_CD	Connect from touchpanel (connects CD to main outs)
RECORD_TUNER	Connect from touchpanel (connects tuner to Record outs)
RECORD_VIDEO	Connect from touchpanel (connects video to Record outs)
RECORD_AUX_1	Connect from touchpanel (connects aux 1 to Record outs)
RECORD_AUX_2	Connect from touchpanel (connects aux 2 to Record outs)
RECORD_TAPE_1	Connect from touchpanel (connects tape 1 to Record outs)
RECORD_OFF	Connect from touchpanel (disconnects Record outs)
VOLUME_UP	Connect from touchpanel (Ramps volume up !!!!Dose not defeat volume mute!!!)
VOLUME_DOWN	Connect from touchpanel (Ramps volume down !!!! Dose not defeat volume mute!!!)
MUTE_TOGGLE	Connect from touchpanel (toggle the mute state)
RELABLE_OK	Connect from touchpanel (applies char selected on lable)
RELABLE_CHAR_UP	Connect from touchpanel (advances char in lable edit)
RELABLE_CHAR_DOWN	Connect from touchpanel (decrement char in lable edit)
RELABLE_TOGGLE	Connect from touchpanel (starts/ends the lable edit mode)
DISPLAY_TOGGLE	Connect from touchpanel (turns on/off the LED display on the Rotel)
RX\$	Connect from CNXCOMH-2 (HEX string coming from Rotel)

FEEDBACK:

LISTEN\$	Connect to indirect text field on touchpanel
RECORD\$	Connect to indirect text field on touchpanel
The power fb are a status of the last power command out of this module	
POWER_ON_FB	Connect to feedback side of touchpanel
POWER_OFF_FB	Connect to feedback side of touchpanel
LISTEN_PHONO_FB	Connect to feedback side of touchpanel
LISTEN_CD_FB	Connect to feedback side of touchpanel
LISTEN_TUNER_FB	Connect to feedback side of touchpanel
LISTEN_VIDEO_FB	Connect to feedback side of touchpanel
LISTEN_AUX_1_FB	Connect to feedback side of touchpanel
LISTEN_AUX_2_FB	Connect to feedback side of touchpanel
LISTEN_TAPE_1_FB	

	Connect to feedback side of touchpanel
LISTEN_TAPE_2_FB	Connect to feedback side of touchpanel
RECORD_PHONE_FB	Connect to feedback side of touchpanel
RECORD_CD_FB	Connect to feedback side of touchpanel
RECORD_TUNER_FB	Connect to feedback side of touchpanel
RECORD_VIDEO_FB	Connect to feedback side of touchpanel
RECORD_AUX_1_FB	Connect to feedback side of touchpanel
RECORD_AUX_2_FB	Connect to feedback side of touchpanel
RECORD_TAPE_1_FB	Connect to feedback side of touchpanel
RECORD_OFF_FB	Connect to feedback side of touchpanel
TX\$	From module output to CNXCOMH-2 or equivalent

OPS USED FOR TESTING:	5.12.26x
COMPILER USED FOR TESTING:	SimplWindows Version 1.61.12
SAMPLE PROGRAM:	None
REVISION HISTORY:	None