

SIMPLWINDOWS NAME: Rotel RT-955 Tuner

CATEGORY: Tuner

VERSION: 1.0

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

GENERAL NOTES: This module gives access to all front panel functions of Rotel Tuner. It also gives the user access to direct frequency selection previously only available from IR remote. The power on/off feature is only standby on/off. If total power is wished to be toggled on and off then, a CNPC1-A may be used along with a current sensor for positive feedback. This module will output the exact visual representation of the Rotel tuner on any two-way touchpanel.

CRESTRON HARDWARE: None

SETUP OF CRESTRON HARDWARE: Protocol is as follows:
 Baud Rate - 4800
 Parity - None
 Data Bits - 8
 Stop Bits - 1
 No Handshaking

VENDOR FIRMWARE: None

VENDOR SETUP: Use the RS-232 port on the back of unit. Make sure the proper cable is made or acquired to ensure communication.

CABLE NUMBER: CNSP-124

CONTROL:

TP_1 Connect from touchpanel (represents button 1 on front panel)

TP_2 Connect from touchpanel (represents button 2 on front panel)

TP_3 Connect from touchpanel (represents button 3 on front panel)

TP_4 Connect from touchpanel (represents button 4 on front panel)

TP_5 Connect from touchpanel (represents button 5 on front panel)

TP_6 Connect from touchpanel (represents button 6 on front panel)

TP_7 Connect from touchpanel (represents button 7 on front panel)

TP_8 Connect from touchpanel (represents button 8 on front panel)

TP_9 Connect from touchpanel (represents button 9 on front panel)

TP_0 Connect from touchpanel (represents button 0 on front panel)

TP_FREQ_DIRECT Connect from touchpanel (this button is not found on tuner only on IR remote and RS232 protocol)

TP_LABEL Connect from touchpanel (this button is not found on tuner only RS232 protocol)

TP_MEMORY Connect from touchpanel (sets a station frequency in memory)

TP_AUTO_TUNING	Connect from touchpanel (tunes automatically for strong station)
TP_TUNE_PRESET	Connect from touchpanel (toggles between tune & preset mode)
TP_PRESET_SCAN	Connect from touchpanel (scans the preset station frequencies)
TP_BAND	Connect from touchpanel (toggles between am & fm)
TP_PTY	Connect from touchpanel (scans for available RDS stations)
TP_TA	Connect from touchpanel (searches for RDS traffic announcements)
TP_TP	Connect from touchpanel (searches for RDS traffic info programming)
TP_ANT_ATT	Connect from touchpanel (reduces signal level at fm antenna input)
TP_DISPLAY	Connect from touchpanel (in RDS mode it steps through 5 display options)
TP_AF	Connect from touchpanel (scans alternate RDS stations to find stronger frequencies)
TP_ANT_A/B	Connect from touchpanel (toggles between antenna A & B)
TP_FM_IF_NARROW	Connect from touchpanel (reduces range of incoming signals for better reception)
TP_FM_MONO	Connect from touchpanel (toggles between stereo and mono mode)
TP_STDBY	Connect from touchpanel (turns unit on & off standby only)
TP_TUNE_UP	Connect from touchpanel (moves frequency in the upward direction)
TP_TUNE_DWN	Connect from touchpanel (moves frequency in the downward direction)
TP_REFRESH	Connect from touchpanel (refreshes processor with current info on rotel display- not required)
ROTEL_RX\$	Connect from cnxcomh-2 or equivalent (hex string coming from rotel tuner)

FEEDBACK:

STATIONS\$	Connect to indirect text field on touchpanel
LED_ON	Connect to feedback side of touchpanel
The next following signals activate legends on a two-way touchpanel	
AUTO	Connect to feedback side of touchpanel
MEMORY	Connect to feedback side of touchpanel
PRESET	Connect to feedback side of touchpanel
RT	Connect to feedback side of touchpanel
EON	Connect to feedback side of touchpanel
TP	Connect to feedback side of touchpanel
TA	Connect to feedback side of touchpanel
AF	Connect to feedback side of touchpanel
STEREO	Connect to feedback side of touchpanel
TUNED	Connect to feedback side of touchpanel
NARROW	Connect to feedback side of touchpanel
LW	Connect to feedback side of touchpanel
MW	Connect to feedback side of touchpanel
FM	Connect to feedback side of touchpanel

ANT	Connect to feedback side of touchpanel
B	Connect to feedback side of touchpanel
A	Connect to feedback side of touchpanel
RBDS	Connect to feedback side of touchpanel
RDS	Connect to feedback side of touchpanel
LVL0	Connect to feedback side of touchpanel
LVL1	Connect to feedback side of touchpanel
LVL2	Connect to feedback side of touchpanel
LVL3	Connect to feedback side of touchpanel
LVL4	Connect to feedback side of touchpanel
LVL5	Connect to feedback side of touchpanel
LVL6	Connect to feedback side of touchpanel
LVL7	Connect to feedback side of touchpanel
LVL8	Connect to feedback side of touchpanel
LVL9	Connect to feedback side of touchpanel
AM	Connect to feedback side of touchpanel
ROTEL_TX\$	From module output to CNXCOMH-2 or equivalent

PARAMETERS:

STANDBY_TEXT Text that will appear when tuner is in standby

OPS USED FOR TESTING: 5.09.07
COMPILER USED FOR TESTING: SimplWindows Version 1.30.01
SAMPLE PROGRAM: ROTLTSTA
REVISION HISTORY: None