



Rotel RSP-1582 RS232 / IP ASCII Controller Command List

Date	Version	Update Description
October 23, 2015	1.00	Original Specification
July 12, 2016	1.10	Revised to reflect updates to RS232 feedback and commands changed with main SW V2.59/2.60
January 9, 2017	1.20	Revised to reflect updated feedback for stereo DSP mode changed with main SW V2.81

The RSP-1582 supports an ASCII based RS232 and IP protocol. The RS232 hardware does not support flow control so care needs to be take when sending and receiving data to avoid packet loss.

All commands sent to the attached Rotel device must have a terminating “!” character.

Example Command: power_on!

Note: Do not include any spaces in the command, and do not include a carriage return or line feed after the command, only the “!” terminating character.

Status information from the attached Rotel product with either have a terminating “!” character or a byte count for variable length text data that may include a “!” in the returned message. It is up to the sending/receiving control application to properly parse and process the packets.

Note: The byte count only includes the text data and not the length or “,” character.

RS232 Connection Settings

Baud Rate	Parity	Valid Data Bits	Stop Bit Value	Handshaking	Data Type
115200	N	8	1	None	String

IP Control Settings

The RSP-1582 will accept and respond to IP control commands if the product is connected to a local network and has a valid IP address.

Commands will be accepted via TCP port 9596, and the unit will send responses back via the same port.

Section 1: Control Command List

RSP-1582 ASCII	Command Description	Unit Response
POWER & VOLUME COMMANDS		
power_on!	Power On	power=on!
power_off!	Power Off	power=standby!
power_toggle!	Power Toggle	power=on/standby!
volume_up!	Volume Up	volume=-##.##db!
volume_down!	Volume Down	volume=-##.##db!
volume_#n.ndb!	Set Volume to level n n = 80.5 (<i>min</i>) – 00.0 (<i>max</i>)	volume=-##.##db!
mute!	Mute Toggle	mute=on/off!
mute_on!	Mute On	mute=on!
mute_off!	Mute Off	mute=off!
SOURCE SELECTION COMMANDS		
cd!	Source CD	source=cd!
video1!	Source Video 1	source=video1!
video2!	Source Video 2	source=video2!
video3!	Source Video 3	source=video3!
video4!	Source Video 4	source=video4!
video5!	Source Video 5	source=video5!
video6!	Source Video 6	source=video6!
video7!	Source Video 7	source=video7!
video8!	Source Video 8	source=video8!
tuner!	Source Tuner	source=tuner!
phono!	Source Phono	source=phono!
usb!	Source Front USB	source=usb!
pc_usb!	Source PC-USB	source=pc_usb!
bal_xlr!	Source XLR	source=bal_xlr!
bluetooth!	Source Bluetooth	source=bluetooth!
multi_input!	Source Multi Input	source=multi_input!
SOURCE CONTROL COMMANDS		
play!	Play Source	n/a
stop!	Stop Source	n/a
pause!	Pause Source	n/a
track_fwd!	Track Forward/Tune Up	n/a
track_back!	Track Backward/Tune Down	n/a
MENU CONTROL COMMANDS		
menu!	Display the Menu	n/a
exit!	Exit Key	n/a
up!	Cursor Up	n/a
down!	Cursor Down	n/a
left!	Cursor Left	n/a
right!	Cursor Right	n/a

RSP-1582 ASCII	Command Description	Unit Response
enter!	Enter Key	n/a
DSP MODE COMMANDS		
2channel!	Select 2 channel mode	dsp_mode=stereo!
3channel!	Select 3 channel stereo mode	dsp_mode=dolby_3_stereo!
5channel!	Select 5 channel stereo mode	dsp_mode=5_channel_stereo!
7channel!	Select 7 channel stereo mode	dsp_mode=7_channel_stereo!
prologic_music!	Select Pro Logic II Music mode	dsp_mode=dolby_pliix_music!
prologic_movie!	Select Pro Logic II Movie mode	dsp_mode=dolby_pliix_movie!
prologic_game!	Select Pro Logic II Game mode	dsp_mode=dolby_pliix_game!
prologic_iiz!	Select Pro Logic IIz mode	dsp_mode=dolby_pliiz!
neo6_music!	Select dts Neo:6 Music mode	dsp_mode=dts_neo:6_music!
neo6_cinema!	Select dts Neo:6 Cinema mode	dsp_mode=dts_neo:6_cinema!
bypass!	Select Analog Bypass mode	dsp_mode=analog_bypass!
surround_next!	Select the next DSP mode	cycles through all dsp modes
LEVEL TRIM COMMANDS		
subwoofer_up!	Temp. increase sub level +1dB	subwoofer_level=+/-##.##db!
subwoofer_down!	Temp. decrease sub level -1dB	subwoofer_level=+/-##.##db!
center_up!	Temp. increase center level +1dB	center_level=+/-##.##db!
center_down!	Temp. decrease center level -1dB	center_level=+/-##.##db!
surround_up!	Temp. increase surr. level +1dB	surround_level=+/-##.##db!
surround_down!	Temp. decrease surr. level -1dB	surround_level=+/-##.##db!
OTHER COMMANDS		
dimmer!	Toggle display dimmer	dimmer=-#!
dimmer_0!	Set display to neutral level	dimmer=0!
dimmer_-n!	Set display to dimmer level -n (n = 1-10)	dimmer_-#!
dimmer_+n!	Set display to dimmer level +n (n = 1-10)	dimmer=+#!
factory_default_on!	Reset unit to factory defaults	n/a

Section 2: Feedback Request Command List

Command:	get_current_power!
Description:	Request current power status
Return String(s):	power=on! / power=standby!
Return Description:	Current power status
Example:	power=on!

Command:	get_current_source!
Description:	Request current source
Return String(s):	source=cd! / source=coax1! / source=coax1! / source=coax2! / source=coax3! / source=opt1! / source=opt2! / source=opt3! / source=tuner! / source=phono! / source=usb! / source=pc_usb! / source=video1! / source=video2! / source=video3! / source=video4! / source=video5! / source=video6! / source=video7! / source=video8! / source=bluetooth! / source=bal_xlr! / source=multi_input!
Return Description:	Current source
Example:	source=pc_usb!

Command:	get_volume!
Description:	Request current volume value
Return String(s):	volume=-##.##db!
Return Description:	current volume level
Example:	volume=-40.5db!

Command:	get_mute_status!
Description:	Request current mute status.
Return String(s):	mute=off! / mute=on!
Return Description:	Current mute state
Example:	mute=on!

Command:	get_dsp_mode!
Description:	Request current DSP mode.
Return String(s):	dsp_mode=stereo! / dsp_mode=dolby_3_stereo! / dsp_mode=5_channel_stereo! / dsp_mode=7_channel_stereo! / dsp_mode=dolby_pliix_music! / dsp_mode=dolby_pliix_movie! / dsp_mode=dolby_pliix_game! / dsp_mode=dolby_pliiz! / dsp_mode=dts_neo:6_music! / dsp_mode=dts_neo:6_cinema! / dsp_mode=analog_bypass! / dsp_mode=source_dependent!
Return Description:	Current DSP mode.
Example:	dsp_mode=dolby_pliix_music!