

Partner: Planar
Model: PS Series PSxx52
Device Type: LCD Display



GENERAL INFORMATION

SIMPLWINDOWS NAME:	Planar PS Series PSxx52 RS232 v1.0
CATEGORY:	TV/Video Projector
VERSION:	1.0
SUMMARY:	This module controls RS232 communication with the Planar PS Series PSxx52 monitors. Applicable models: PS4652, PS5552, PS6552
GENERAL NOTES:	<p>This module is intended to control a single monitor. Video wall functionality is not implemented at this time.</p> <p>The monitor does not respond to any commands or queries (other than power) if turned off. The monitor must be powered on in order for the module to initialize and in order for any commands other than power on to function.</p> <p>Once the monitor is turned on, the module will attempt to initialize. This process may take up to 15 seconds. Once powered on and fully initialized, the full control functions of the module will be available for use.</p> <p>In order to ensure the module works correctly, "Input Auto Search" must be set to "Off".</p> <p>The monitor only responds to Backlight commands and queries if a signal is detected on the currently selected input. If the input is set to a selection that does not currently have signal, Backlight commands and queries will not work.</p> <p>It has been noticed that with the version of monitor firmware that is being used for testing, the monitor will not accept any commands after it has been turned off if a source is attached to the HDMI input. This issue has been noted by Planar and should be resolved in a future firmware version.</p>
CRESTRON HARDWARE REQUIRED:	<p>Crestron 2-Series* or 3-Series processor.</p> <p><i>*this module is set up to work with a 2-Series processor but has not been tested with one as of this writing.</i></p>
SETUP OF CRESTRON HARDWARE:	<p>RS232:</p> <p>Baud: 9600</p> <p>Parity: None</p> <p>Data Bits: 8</p> <p>Stop Bits: 1</p> <p>Flow Control: None</p>
VENDOR FIRMWARE:	N/A

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VENDOR SETUP:	N/A
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PARAMETER:

Monitor_ID	Setting to indicate the Monitor ID that has been set for the device.
Volume_Step_Size	Setting to indicate the single step amount to increment/decrement the volume.
Backlight_Step_Size	Setting to indicate the single step amount to increment/decrement the backlight.

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CONTROL:

Connect	D	Pulse to establish communication with the monitor.
Disconnect	D	Pulse to break communication with the monitor.
Reinitialize	D	Pulse to re-establish communication with the monitor. Pulsing this signal is the equivalent of pulsing Disconnect followed by Connect.
Power_On	D	Pulse to turn on the monitor.
Power_Off	D	Pulse to turn off the monitor.
Power_Toggle	D	Pulse to toggle the power status of the monitor.
Volume_Up	D	Pulse to raise the volume of the monitor by 1 step. Hold to raise the volume of the monitor in 1 step increments until released. The volume will be raised by the amount assigned to the parameter "Volume_Step_Size".
Volume_Down	D	Pulse to lower the volume of the monitor by 1 step. Hold to lower the volume of the monitor in 1 step increments until released. The volume will be lowered by the amount assigned to the parameter "Volume_Step_Size".
Volume_Set	A	Set the volume level of the monitor.
Volume_Mute_On	D	Pulse to mute the volume of the monitor.
Volume_Mute_Off	D	Pulse to unmute the volume of the monitor.
Volume_Mute_Toggle	D	Pulse to toggle the volume mute status of the monitor.
Backlight_Up	D	Pulse to raise the backlight of the monitor by 1 step. Hold to raise the backlight of the monitor in 1 step increments until released. The backlight will be raised by the amount assigned to the parameter "Backlight_Step_Size".
Backlight_Down	D	Pulse to lower the backlight of the monitor by 1 step. Hold to lower the backlight of the monitor in 1 step increments until released. The backlight will be lowered by the amount assigned to the parameter "Backlight_Step_Size".
Backlight_Set	A	Set the backlight level of the monitor.

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**CONTROL *continued:***

Video_Input_[X]	D	Pulse to switch the current video input on the monitor to [X].
Video_Input_Cycle	D	Pulse to cycle to the next video input of the monitor.
Audio_Input_[X]	D	Pulse to switch the current audio input on the monitor to [X].
Speaker_[X]	D	Pulse to set the monitor Speaker to [X].
Speaker_Cycle	D	Pulse to cycle to the next speaker of the monitor.
Poll_Enable	D	Latch high to enable polling the monitor for the status of all relevant attributes. Unlatch to turn off polling. <i>Note: the monitor does not provide unsolicited feedback. Enabling polling is highly recommended for accurate and up-to-date feedback.</i>
From_Device	S	Serial signal to be routed from a 2-way COM port.

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FEEDBACK:

Is_Communicating	D	High to indicate that communication has been established with the device. Once communication has been established, the module will attempt to initialize automatically once the monitor is powered on.
Is_Initialized	D	High to indicate that the module's internal state variables are now synced with the device's current state. <i>Note: Outgoing commands (other than power) will not be sent to the monitor until the module is initialized. However, heartbeat commands will continue to be sent.</i>
Power_Is_On	D	High to indicate the monitor is currently on.
Volume_Level	A	Value indicating the current volume level of the monitor.
Volume_Is_Muted	D	High to indicate the volume of the monitor is currently muted.
Backlight_Level	A	Value indicating the current backlight level of the monitor.
Video_Input_Is_[X]	D	High to indicate the current video input of the monitor is set to [X].
Audio_Input_Is_[X]	D	High to indicate the current audio input of the monitor is set to [X].
Speaker_Is_[X]	D	High to indicate the current Speaker of the monitor is set to [X].
Polling_Is_Enabled	D	High to indicate the module is currently set to poll for device status.
To_Device	S	Serial signal to be routed to a 2-way COM port.

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**TESTING:**

OPS USED FOR TESTING:	RMC3: 1.011.0023
SIMPL WINDOWS USED FOR TESTING:	4.03.14.01
CRES DB USED FOR TESTING:	52.05.013.00
DEVICE DATABASE:	67.00.001.00
SYMBOL LIBRARY USED FOR TESTING:	956
SAMPLE PROGRAM:	Planar PS Series PSxx52 Demo RS232 RMC3
REVISION HISTORY:	v1.0 – Initial Release