Partner: Planar
Model: RA-Series
Device Type: LCD Display

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GENERAL INFORMATION

SIMPLWINDOWS NAME:	Planar RA-Series RS232 v1.0
CATEGORY:	TV/Video Projector
VERSION:	1.0
SUMMARY:	This module controls RS232 communication with the Planar RA-Series displays.
GENERAL NOTES:	This module is intended to control a single monitor. Video wall functionality is not implemented at this time.
CRESTRON HARDWARE REQUIRED:	Crestron 2-Series* or 3-Series processor. *this module is set up to work with a 2-Series processor but has not been tested with one as of this writing.*
SETUP OF CRESTRON HARDWARE:	RS232: Baud: 9600 Parity: None Data Bits: 8 Stop Bits: 1 Flow Control: None
VENDOR FIRMWARE:	N/A
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.
Input_[x]	D	Pulse to switch to current input on the monitor to [x].
Input_Cycle	D	Pulse to cycle to the next input 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.
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.
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 level of the monitor by 1 step. Hold to raise the backlight level of the monitor in 1 step increments until released.
Backlight_Down	D	Pulse to lower the backlight level of the monitor by 1 step. Hold to lower the backlight level of the monitor in 1 step increments until released.
Backlight_Set	A	Set the backlight level of the monitor.
IR_[x]	D	Pulse to send an IR emulation command to the monitor for [X].

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CONTROL *continued*:

Poll_Enable	D	Latch high to enable polling the monitor for the status of all relevant attributes. Unlatch to turn off polling. *Note: the monitor does not provide unsolicited feedback. Enabling polling is highly recommended for accurate and up-to-date feedback.*
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.
Is_Initialized	D	High to indicate that the module's internal state variables are now synced with the device's current state. *Note: Outgoing commands will not be sent to the monitor until the module is initialized. However, heartbeat commands will continue to be sent.*
Power_Is_On	D	High to indicate the monitor is currently on.
Input_Is_[X]	D	High to indicate the current input of the monitor is set to [X].
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.
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 RA-Series Demo RS232 RMC3
REVISION HISTORY:	v1.0 – Initial Release