

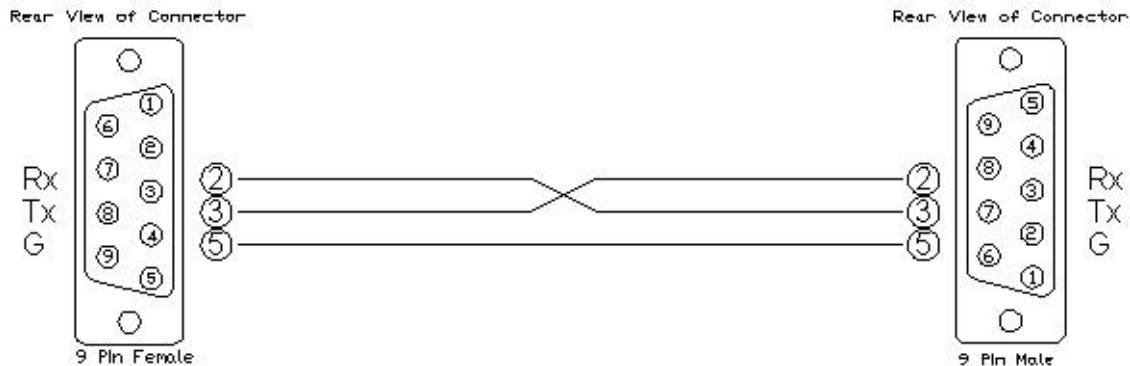
Partner: Panamax
Model: M4320-PRO
Device Type: Power Controller



GENERAL INFORMATION

SIMPLWINDOWS NAME:	Panamax M4320-PRO RS232
CATEGORY:	Miscellaneous
VERSION:	v1.0
SUMMARY:	Basic control over the 8 outlets as well as advanced settings control.
GENERAL NOTES:	This module will poll initially for various states when program is first run. Module feedback is based on unit's response. Linefeed is forced On. SB compatible.
CRESTRON HARDWARE REQUIRED:	C2COM-2/3, C2I-COM6, ST-COM
SETUP OF CRESTRON HARDWARE:	RS232 Baud: 9600 Parity: None Data Bits: 8 Stop Bits: 1
VENDOR FIRMWARE:	v1.005
VENDOR SETUP:	Must use the RS232 card slot in the back of the unit.
CABLE DIAGRAM:	CNSP-122

CNSP-122



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CONTROL:

Poll_On/Off/Toggle	D	Pulse to enable and disable polling.
All_On/Off	D	Pulse to turn all outlets on and off with no delay.
Green_Button_Toggle	D	Pulse to toggle the Green Button. Powers down or up all outlets controlled by this trigger.
Reboot_Button_1	D	Pulse to trigger. Power cycles all outlets controlled by this trigger.
Reboot_Button_2	D	Pulse to trigger. Power cycles all outlets controlled by this trigger.
Outlet_*_On/Off/Toggle	D	Pulse to turn designated outlet on or off. No delay.
Outlet_Trigger_Mode	D	Pulse to place in the Set Trigger mode.
Set_Outlet_Trigger	D	Pulse to set the designated outlet to the assigned trigger source.
Outlet_Trigger_Mode_None	D	Pulse to assign designated outlet to have trigger source of none.
Outlet_Trigger_Mode_Button_1	D	Pulse to assign designated outlet to have trigger source of button 1.
Outlet_Trigger_Mode_Button_2	D	Pulse to assign designated outlet to have trigger source of button 2
Outlet_Trigger_Mode_Green_Button	D	Pulse to assign designated outlet to have trigger source of green button.
Outlet_Trigger_Mode_TRIGIN	D	Pulse to assign designated outlet to have trigger source of DC trigger input.
Reboot_Delay_Mode	D	Pulse to place in the Reboot Delay mode.
Set_Reboot_Delay	D	Pulse to set the delay between the last outlet turning off and the beginning of the turn on sequence in reboot cycle.
Take_Reboot_1_Delay	D	Pulse to assign Reboot 1 Delay. Valid range 0-255 seconds.
Take_Reboot_2_Delay	D	Pulse to assign Reboot 2 Delay. Valid range 0-255 seconds.
On_Off_Delay_Mode	D	Pulse to place in Delay mode.
Set_On_Off_Delay_Mode	D	Pulse to set the turn on and turn off delays for an outlet or DC trigger output.
Take_On_Delay	D	Pulse to assign the On Delay time. Valid range 0-255 seconds.
Take_Off_Delay	D	Pulse to assign the Off Delay time. Valid range 0-255 seconds.

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Set_Profile_1	D	Pulse to set all the custom configuration settings to the profile 1.
Set_Profile_2	D	Pulse to set all the custom configuration settings to the profile 2.
Set_Profile_3	D	Pulse to set all the custom configuration settings to the profile 3.
Set_Profile_4	D	Pulse to set all the custom configuration settings to the profile 4.
Reset_Factory_Settings	D	Pulse to reset all of the custom configuration settings to their original factory settings.
Outlet_*	D	Pulse to choose designated outlet.
Clear_Outlets	D	Pulse to clear designated outlet selected.
Seconds_Key_*	D	Pulse to choose seconds entry.
Clear_Seconds	D	Pulse to clear the entered seconds.
From_Device	S	Serial input to receive serial data from device.

FEEDBACK:

Poll_On_fb	D	High if polling if enabled.
Poll_Off_fb	D	High if polling if disabled.
Poll_Busy	D	High if polling is busy.
Green_Button_Triggered	D	High to indicate Green button was triggered.
Reboot_Button_1_Triggered	D	High to indicate Reboot button 1 was triggered.
Reboot_Button_2_Triggered	D	High to indicate Reboot button 2 was triggered.
Outlet_*_Is_On	D	High if designated outlet is on.
Outlet_*_Is_Off	D	High if designed outlet is off.
Outlet_Trigger_Mode_Is_Active	D	High if unit is Outlet trigger mode.
Reboot_Delay_Mode_Is_Active	D	High if unit is in Reboot Delay mode.
On_Off_Delay_Mode_Is_Active	D	High if unit is in Delay mode.
Input_Voltage_Status	A	Analog value to represent input voltage feedback.

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		0d = Normal mode 1d = Overvoltage 2d = Undervoltage 3d = Recovery
Input_Voltage_Status_Is_Normal_Mode	D	High if unit is within input voltage limit.
Input_Voltage_Status_Is_Overvoltage	D	High if unit is over input voltage limit.
Input_Voltage_Status_Is_Undervoltage	D	High if unit is under input voltage limit.
Input_Voltage_Status_Is_Recovery	D	High if unit is in recovery after input voltage surpassed the threshold limit.
Breaker_Is_Faulted	D	High to indicate the unit is experiencing a breaker fault.
Wire_Is_Faulted	D	High to indicate the unit is experiencing a wire fault.
Temperature_Is_Faulted	D	High to indicate the unit has surpassed the threshold temperature limit.
AVM_Is_Faulted	D	High to indicate the unit an AVM fault.
Trigger_Input_Is_On	D	High to indicate the trigger input is on.
Voltage_Input_Level	A	Analog value to indicate the voltage input level.
Current_Input_Level	A	Analog value to indicate the current input level.
Outlet_Keypad	A	Analog value to display the currently selected outlet.
Seconds_Keypad	A	Analog value to display the seconds.
Invalid_Parameter_Error	D	High to indicate an invalid command was send to the unit.
To_Device	S	Serial output to send serial data to the unit.

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**TESTING:**

OPS USED FOR TESTING:	4.001.1012
SIMPL WINDOWS USED FOR TESTING:	2.12.41
CRES DB USED FOR TESTING:	22.05.013.00
DEVICE DATABASE:	30.00.011.00
SYMBOL LIBRARY USED FOR TESTING:	679
SAMPLE PROGRAM:	Panamax M4320-PRO RS232 Demo
REVISION HISTORY:	v1.0