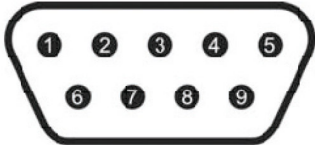


Partner: APart
Model: PR4000R
Device Type: FM Tuner



GENERAL INFORMATION:

SIMPLWINDOWS NAME:	"APart PR4000R v1.0.umc"
CATEGORY:	FM Tuner
VERSION:	V 1.0
SUMMARY:	The "APart PR4000R v1.0.umc" macro controls a 4 FM Tuners via Serial communication.
GENERAL NOTES:	The "APart PR4000R v1.0.umc" macro controls a FM Tuner via Serial communication. The "APart PR4000R v1.0.umc" macro offers functionality to tune, to search for channels, to set the frequency manually and to store and recall up to 40 presets for each of the 4 tuners.
CRESTRON HARDWARE REQUIRED:	PRO2 Processor
SETUP OF CRESTRON HARDWARE:	RS232 Baud: 19200 Parity: N Data Bits: 8 Stop Bits: 1
VENDOR FIRMWARE:	n/a
VENDOR SETUP:	Connect the serial port on the unit with the serial port on the Crestron processor.
CABLE DIAGRAM:	<div style="display: flex; align-items: flex-start;"> <div style="flex: 1;"> <p>rs232 Cable specifications</p> <p>Pin 2: TX data: data transmission output</p> <p>Pin 3: RX data: data reception input</p> <p>Pin 5: GND: ground</p> <p>Other pins are not used.</p> </div> <div style="flex: 1; text-align: center;">  </div> </div>

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CONTROL:

Activate_Standby	D	Pulse to activate standby mode.
Deactivate_Standby	D	Pulse to deactivate standby mode.
Select_Tuner_1	D	Pulse to select tuner 1.
Select_Tuner_2	D	Pulse to select tuner 2.
Select_Tuner_3	D	Pulse to select tuner 3.
Select_Tuner_4	D	Pulse to select tuner 4.
Digit_x	D	Pulse to select digit x. range of x: 0 to 9.
CLEAR	D	Pulse to clear the digit field.
Store_Preset	D	Pulse to store current frequency as the selected preset.
Recall_Preset	D	Pulse to recall the selected preset.
Set_frequency	D	Pulse to set the manually entered frequency.
Tune_Down	D	Pulse to tune down.
Tune_Up	D	Pulse to tune up.
Search_Up	D	Pulse to search next channel.
Search_Down	D	Pulse to search previous channel.
Select_AM_Modula	D	Pulse to select AM Mode.
Select_FM_Modula	D	Pulse to select FM Mode.
Turn_On_Stereo	D	Pulse to turn on stereo mode.
Turn_Off_Stereo	D	Pulse to turn off stereo mode.
Select_RDS_Program	D	Pulse to select RDS Program mode.
Select_RDS_Info	D	Pulse to select RDS Info mode.
FromDevice	S	Serial String data received from the device on it's Serial com connection.

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FEEDBACK:

Standby_Is_On	D	High to indicate that standby mode is activated.
Standby_Is_Off	D	High to indicate that standby mode is deactivated.
Tuner_1_Is_Selected	D	High to indicate that tuner 1 is selected.
Tuner_2_Is_Selected	D	High to indicate that tuner 2 is selected.
Tuner_3_Is_Selected	D	High to indicate that tuner 3 is selected.
Tuner_4_Is_Selected	D	High to indicate that tuner 4 is selected.
Numeric_Output_Text	S	Serial signal that represent the number that was entered via the keypad.
Frequency_Text	S	Serial signal that represents the current frequency.
Modula_Is_AM	D	High to indicate that AM mode is selected.
Modula_Is_FM	D	High to indicate that FM mode is selected.
Stereo_Is_On	D	High to indicate that Stereo mode is selected.
Stereo_Is_Off	D	High to indicate that Mono mode is selected.
RDS_Program_Is_Selected	D	High to indicate that RDS Program mode is selected.
RDS_Info_Is_Selected	D	High to indicate that RDS Info mode is selected.
RDS_Text	S	Serial signal that outputs RDS information of the selected tuner.
ToDevice	S	Serial signal to be routed to a 2-way serial com port.

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**TESTING:**

OPS USED FOR TESTING:	V. PRO2 4.001.1012
SIMPL WINDOWS USED FOR TESTING:	V. 2.11.27
CRESTRON DB USED FOR TESTING:	V. 20.08.003.00
DEVICE DB USED FOR TESTING:	V. 22.06.003.00
SAMPLE PROGRAM:	"APart PR4000R v1.0 PRO2 Demo.smw"
REVISION HISTORY:	V. 1.0