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# MP1288 MIDIWIZARD MIDI CONTROLLER



## INTRODUCTION

Thank you for purchasing the MP1288 MIDIWIZARD. The MP1288 was designed to give you control of a whole universe of MIDI-compatible processors, keyboards, sequencers, MIDI-linked PC terminals or anything else than can receive MIDI on any of the 16 standard MIDI channels.

The MIDI WIZARDS's compact, durable chassis and low profile make it easily integrated into the sometimes crowded studio or stage environment. And, if you choose not to use it as a foot controller, the Wizard is designed to fit into an extra rack space in any 19 inch audio rack. As with every RFX MIDI unit, it is Phantom powerable, which eliminates the need for a separate power cord. The 1288 has the power and memory capabilities to become the nerve center of an entire MIDI recording studio as well as live situation. The Wizard can send up to 8 program changes to 8 different MIDI-linked units for each program number assigned to the pedal. Also up to 8 continuous controllers can be used to vary parameters directly on the receiving unit in real-time.

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## POWER-UP

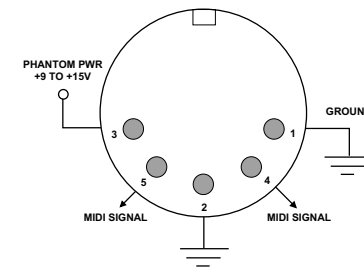
Power-up of the MP1288 is accomplished by using the supplied AC power adapter, or by connecting the MIDI OUT jack to any MIDI unit with Phantom power capabilities using any standard MIDI cable.

The MIDI IN links other MIDI devices into the MIDI line and merges them to avoid data collisions. (For example, 2 MP1288s operating on different MIDI channels could be used together and use the same MIDI cord.)

## RFX MIDI PHANTOM POWER

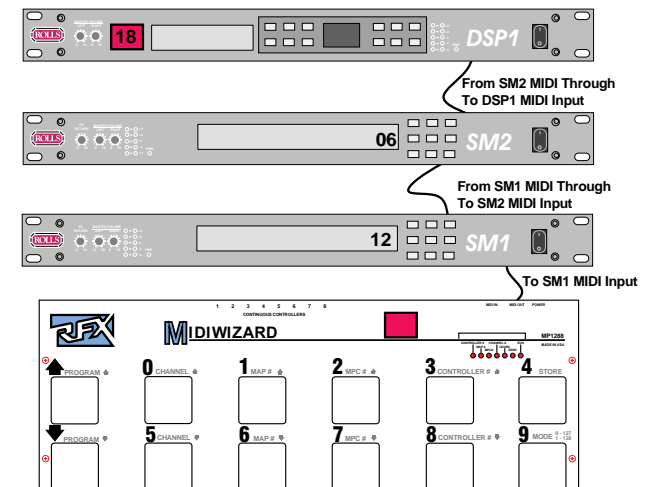
Inspired by an article in the December 1989 issue of Electronic Musician (by Craig Anderton), we decided to emulate their MIDI phantom power model for RFX equipment. MIDI receivers supply 12 VDC on pins 1 and 3, and transmitters receive power on those same pins. Many MIDI devices can be modified to supply power down the cable, but of course RFX makes no warranty to anyone as to the applicability of this modification or any damage that might be done as a result thereof. We supply this note for those adventurous people who may want to give it a try.

Connect pin 1 to circuit ground, and pin 3 to +9 - +15 VDC of the receiving unit.



## SPECIFICATIONS

Data Sent:	MIDI Program Change and MIDI Continuous Control
Size:	17" X 6" X 1.5" (381 x 153 x 38 mm)
Weight:	4 lbs. (1.4 kg)
Power:	7 - 15 VAC/VDC 120 mA
Phantom Power:	7 - 25 VDC 120 mA, pin 1 neg, pin 3 pos.
Display:	2 digit red, .56" high efficiency
Output:	Standard MIDI Program Change, Continuous Control
Output Jacks:	2 5-pin DIN jacks (MIDI OUT, MIDI SHARE)
Chassis:	Black painted steel



(Mapping Example from page 4.)

## USING CONTINUOUS CONTROLLERS

The CONTINUOUS CONTROLLER jacks on the top of the MP1288 are input jacks for separate controlling devices. These controllers can be 0 - 5 volt voltage control pedals, or a unit that uses a variable resistance to ground, such as the RFX 402p volume pedal.

If you have a pedal with 0 - 5 voltage control range, just plug it in and start programming. However, if a variable resistance controller is used, the actual control range may vary depending on the potentiometer in the pedal. Check the manual of the receiving unit(s) for the controller numbers of the parameters you wish to control. The 1288 can accommodate controller numbers 0 - 122.

Connect the pedal to the jack you wish to use, (Several different pedals can be used depending of the functions of the unit(s) being controlled).

While still in LEARN mode, click down to A PROGRAM button until [C1] to [C8] shows in the number display. Now select the channel of the unit to receive the controller signal and press STORE.

Example - Your wah/volume pedal comes equipped with an output jack that makes it double as a voltage controller. Your guitar signal processor lets you remotely adjust the Chorus speed, master volume or hi-mid-lo settings. Since the guitar signal processor is set for MIDI channel 2, plug the controller into CONTINUOUS CONTROLLER jack number 1 and assign jack number 1 to MIDI channel 2. This is done by selecting the Program button while the CONTINUOUS CONTROLLER # LED is lit and then selecting MIDI channel 2 - since the receiving unit is set for MIDI channel 2.

## CLEARING THE MEMORY - FACTORY PRESET

The MP1288 can be reset as it came from the factory by simply holding down both CHANNEL buttons while in the LEARN mode.

- The display will show [FP] (meaning factory preset) for about 60 seconds then clear. This clears all previously programmed information.

## MIDITEST MODE

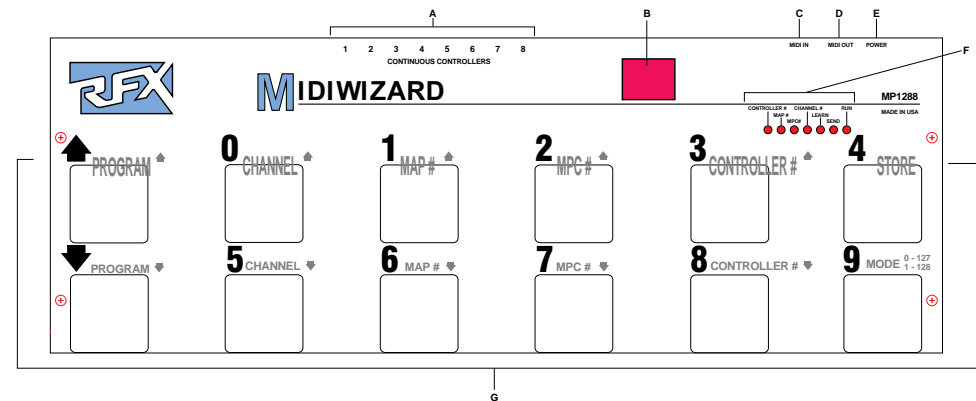
The 1288 comes with a bonus testing mode for testing other MIDI transmitters. To access the TEST Mode, hold the two PROGRAM buttons down on power-up. Connect the unit to be tested to the MIDI IN jack of the 1288, and send a signal from the test unit. The MIDI WIZARD will display the channel and the program change number (MPC#) coming in from the unit being tested.

If a controller is being tested, the display will show the channel number, then the controller number while lighting the CONTROLLER # LED.

In this mode, all the buttons on the MP1288 are inactive because the 1288 is only an input testing device. This features makes the MP1288 a very useful tool when troubleshooting any MIDI transmitting device.

TO EXIT MIDI TEST MODE YOU MUST UNPLUG THE POWER FROM THE MP1288.

## DESCRIPTION



A: Continuous Controller input jacks. 1/4" jacks (tip-sleeve only) for receiving 0-5 volt continuous controller voltages, or standard resistive volume pedal outputs.

B: 3-digit high-efficiency number display for:

- Displaying the program number being accessed while in SEND mode.
- Displaying MAP numbers, MIDI channel numbers, and CONTINUOUS CONTROLLER numbers being assigned while in LEARN mode.

C: MIDI IN jack. 5-pin jack for connection to the MIDI device to be controlled.

E: POWER jack. For connection to the 12 VAC or DC supply.

F: Function LED indicators. Indicate the following:

- The SEND LED indicates that a MIDI signal being sent to the unit(s) being controlled.
- The RUN LED indicates the unit is in "send" mode.
- The LEARN LED indicates the unit is in "learn" mode.
- As you assign each MAP #, CHANNEL #, MIDI PROGRAM CHANGE (MPC) #, or CONTROLLER #, the corresponding LED will stay lit.

G: Function Footpads. For performing the following functions:

- Incrementing, decrementing, and programming Program #s, MIDI Channel #s, MIDI Map #s, MPC #s, Continuous Controller #s, and MODEs.
- STOREs and directly accesses program #s.

## OPERATION

### DEFINITION OF TERMS

In order for you to clearly understand programming and operating your MP1288, you must

understand the following terms:

**Program** - Refers to the MP1288 Program Number, the number displayed on the 1288.

**Preset (or Program Change Number)**, refers to the MIDI number sent by the MP1288.

**MAP or PATCH** refers to Program Changes (up to 8 total) sent by one Program of

**MIDI Channel** - Refers to the specific channel the MIDI data is being transmitted and received upon. Much like radio operation, both the radio station and your radio must be tuned to the same channel in order to communicate. There are 16 MIDI channels in which to send and receive upon.

### Standard SEND mode

Upon power-up, the MP1288 is in SEND or standard operating mode.

The MP1288 may be switched to accommodate units that count from 0 to 127, or from 1 to 128. (see LEARN mode).

Program number changes are sent to the unit(s) being controlled by simply using the leftmost PROGRAM UP or PROGRAM DOWN buttons. This selects the 10's digit.

The buttons labeled in white and marked 0 through 9 select the 1's digit. MIDI data is sent out when a 1's digit is pressed, and the SEND LED will flash.

Example: If you want to access program number 47 on a MIDI controlled unit - upon power-up, the display shows [0-]. Push the PROGRAM UP button 4 times, the display now reads [4-]. Now, press the 7 button and the display will read [47], and program change number 47 will be sent to the receiving unit (it should also read 47). You may also select multiple presets (up to 8) on multiple units using the MIDI MAPS (see MAPS) section.

### LEARN (Programming) Mode

In order to change MIDI Channels, program MIDI MAPs, change the Display Count, and program the Continuous Controller function, you *must* first be in LEARN Mode. To access the LEARN mode, simply hold down both PROGRAM buttons for about 5 - 7 seconds.

- The LEARN LED will light and the display will be [00]].

To exit the LEARN mode, and return to SEND or standard mode, hold down both PROGRAM buttons again for 5 - 7 seconds.

### Changing display count (0-127 or 1-128)

To select the display count mode, press the MODE button.

- Access LEARN Mode.
- The display will flash [01 to 128] or [0 to 127], the last one you see is the one selected. To select the other one, press ?.

### Changing the MIDI Channel

To change the MP1288's send MIDI Channel, press a CHANNEL button while [00] is displayed at the start of LEARN Mode, then press STORE.

- Access LEARN Mode
- The display now counts through all the program numbers, changing them to the new channel.

Remember, the MP1288's channel numbers can be programmed on an individual or group basis (see MAPS).

- When the display reads [00] for the program number, the MIDI channel number will be for ALL program change numbers. CAUTION: This will erase all MAP numbers so the main MIDI channel number should be selected first.

\*\* Remember, all PROGRAMMING functions are marked on the chassis in BLUE, and all SEND functions are in WHITE. \*\*

### MAPS

An example is the best way to explain this procedure, a graphic representation is shown on Page 6.

For our example, we want Preset #1 (that's the number that will be displayed on the MP1288) to change the SM1 (Sound Module) to program number 12, the SM2 to program number 6, and the DSP1 (Digital Signal Processor) to program number 18. Then, we'll have the MP1288 Preset #2 change the SM1 to program number 7 and the SM2 to program number 14, leaving the DSP1 alone. Since the MP1288 always sends out a program change number that's the same as the preset number, set the MP1288 main MIDI channel to a number that is NOT being used by any of the devices that's being controlled. Let's use channel 13. This procedure is explained on page 3.

1. Press and hold the Program up and down buttons to enter LEARN mode.
2. Press the Program Up button to tell the MP1288 that we're programming Preset number one. (I realize this is confusing because it says "Program Up and Down" on the MP1288 and I call them Presets - but there must be a distinction made between the numbers displayed on the MP1288, and the program numbers displayed on your MIDI devices being controlled.) 01 should be displayed.
3. Press the Map # Up button - 01 should be displayed. This is the first Map.
4. Press the MPC (MIDI Program Change) # Up button. It should display a 00. Press the MPC # Up button twelve times to change the display to 12.
5. Press the MIDI Channel Up button. Change it to 01.
6. Press the Map # Up button again - change it to 02. This is the second Map.
7. Press the MPC # Up button - change it to 06 by pressing it 6 more times.
8. Press the MIDI Channel Up button - change it to 02.
9. Press the Map # Up button again - change it to 03. This is the third Map.
10. Press the MPC# Up button again and change it to 18.
11. Press the MIDI Channel Up button again and change it to 03.
12. Press STORE.
13. Press the Program Up button again - we're going to program Preset #2.
14. Press the Map # Up button and change it to 01
15. Press the MPC# Up button and change it to 07.
16. Press the Channel Up button and change it to 01 - the proper MIDI channel for the SM1.
17. Press the Map # Up button and change it to 02.
18. Press the MPC # Up button and change it to 14.
19. Press the Channel button and change it to 02.
20. Press STORE.
21. Now press and hold the Program Up and Down buttons until the MP1288 returns to Run Mode.

In order for all of this to work, your first device (the SM1) must be on MIDI Channel 01, the second device (the SM2) must be on channel 02, and the third device (the DSP1) must be on MIDI channel 03. Refer to their respective owner's manuals to learn how to do that.

Remember that the MP1288 must be on an overall MIDI channel of something other than 01, 02 or 03. Go to bank number 0, so the display shows a 0-, and press the #1 button. Hopefully, if everything was done right, your three devices went to the correct program numbers. Press the #2 button and the SM1 should change to program number 7 and the SM2 to program number 14, the DSP1 should remain unchanged.