DOREMiDi
www.doremidi.cn

MIDI Pedal Converter (MPC-10)

Instructions

1. Introduction

MIDI Pedal Converter (MPC-10) is a converter designed by DOREMiDi that can automatically detect multiple types of instrument pedals to solve the problem of insufficient number of pedals during performance. This product is compatible with positive polarity expression pedal, reverse polarity expression pedal, sustain pedal, and dual-switch pedal, FSR Electronic Hi-Hat. It has MIDI DIN and USB MIDI outputs, and is suitable for use in a variety of performance scenarios.

2. Appearance

❶ EXP1, EXP2: 6.35 Pedal interface, used to connect external pedals.

❷ USB: USB-C interface, with USB MIDI function, used to connect to a computer and supply power to the product at the same time.

❸ MIDI OUT: 3.5 interface, used to connect a 3.5 to MIDI five-pin cable to output MIDI messages.

❸ Upgrade Key: Used for product firmware upgrade.

3. Product Parameters

Name	Description
Model	MPC-10
Size (L x W x H)	70*44*24mm
Weight	50g
Pedal Interface	Two 6.35 MIDI pedal interfaces, support automatic detection of pedal type, including positive polarity expression pedal, reverse polarity expression pedal, sustain pedal, dual switch pedal, FSR Electronic Hi-Hat
USB Interface	Standard USB MIDI interface, plug and play, no need to install drivers; And power the product through this interface
USB compatibility	Compatible with Windows, Mac, iOS, Android and other systems
MIDI interface	3.5 MIDI output interface, use 3.5 to MIDI five-pin cable to convert to standard MIDI DIN interface (included in the product package)
Indicator Light	Product power indicator, connected to the computer indicator
Firmware upgrade	Support firmware upgrade
Support MIDI type	CC (continuous controller), PC (program change), Note (note), Pitch Bend, Channel Pressure, Stop, Start, Continue.

4. Steps for usage

4.1. Connection

- Power supply: Use a 5V USB adapter to power the MPC-10 through the USB interface, or directly connect to the computer through the USB interface, and power the MPC-10 through the computer. The indicator light flashes when the power is only supplied, and the indicator light is always on when it is connected to the computer.
- MIDI DIN connection: Connect the MIDI OUT of the MPC-10 to the MIDI IN interface of the MIDI device through a 3.5 to MIDI DIN 5-pin cable.
- Pedal connection: Connect the pedal to the EXP1 or EXP2 interface of the MPC-10 through the 6.35 interface.
- Set the pedal's MIDI messages: Before using MPC-10, you need to use the "Pedal Config Tool" software to set the pedal's MIDI messages.

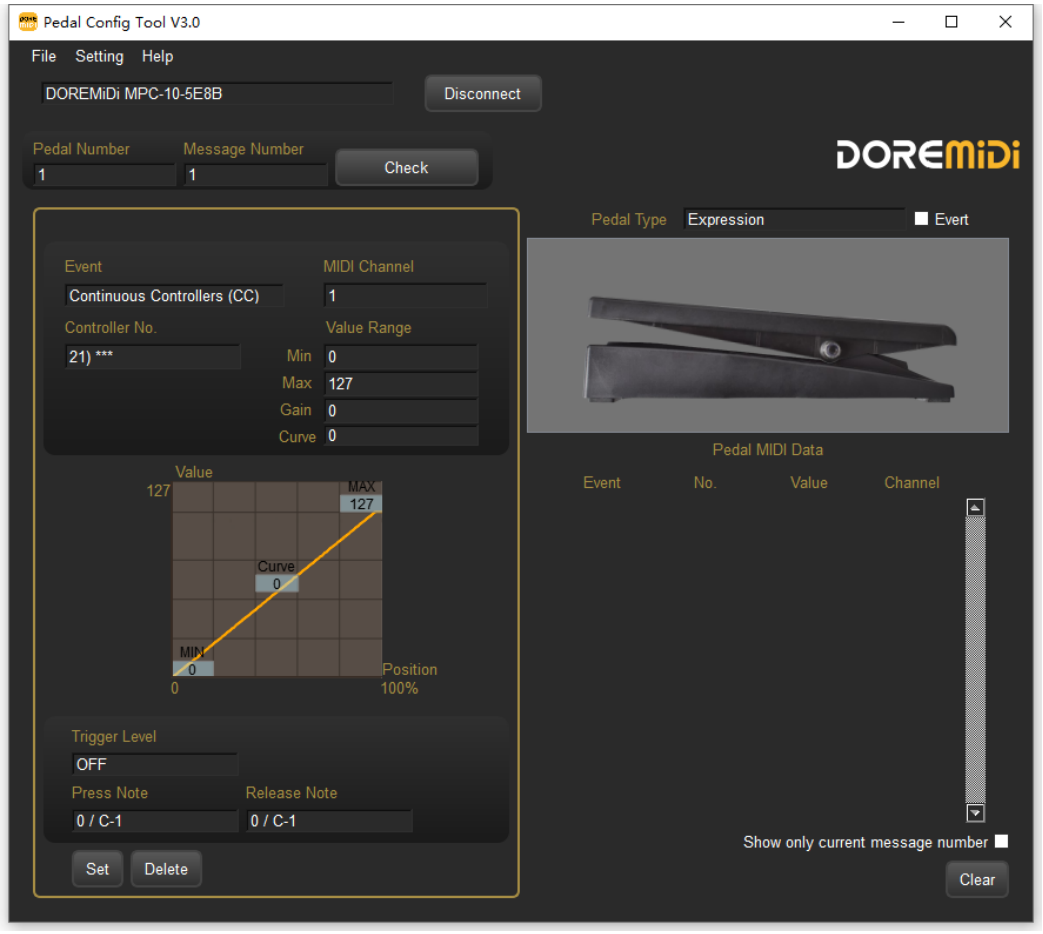
(Note: If the pedal MIDI message is not set, the MPC-10 adopts the default value, the default value of the expression/hi-hat pedal is MIDI CC = 21. The default value of the single switch type pedal is MIDI CC = 64 (sustain). The double switch pedal Default is MIDI CC = 64 (sustain), MIDI CC = 66 (Sostenuto).)

4.2. Set the MIDI message of the pedal

Users can use Pedal Config Tool software to configure the MIDI messages triggered by the pedal. Please connect the product to the computer, and then use Pedal Config Tool to connect the product and set the MIDI messages. This software supports Windows7 and above systems, MacOS.

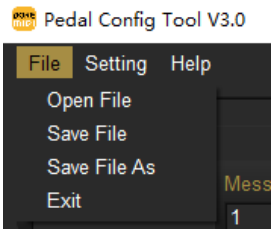
Software link: https://www.doremidi.club/download/Product/PedalConfigTool/Pedal_Config_Tool

(Note: ① If the software download link is invalid, please go to the DOREMiDi official website to download: www.doremidi.cn. ② The software functions may be updated, please refer to the instructions after downloading the software.)



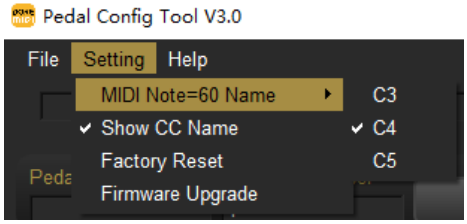
4.2.1. Navigation Bar

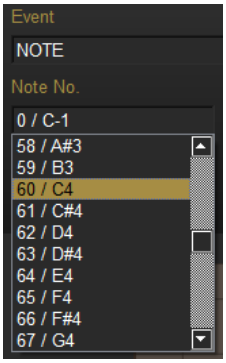
a. File



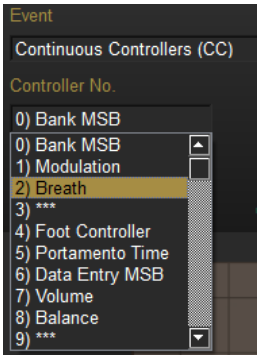
- Save File: save all the configuration information of the current page as a file, which can be used next time.
- Save File As: Save the file as another file, save all the configuration information of the current page as another file.
- Open File: open and import the configuration file.

b. Setting

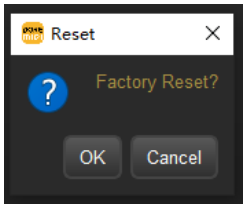




- MIDI Note = 60 Name: set the note when MIDI Note = 60, used to display the name of the note.
- Show CC Name: When turned on, when the pedal is set to Continue Controller (CC), the name of the CC controller can be displayed. The CC controller name is defined according to the MIDI standard document, where "***" is an undefined name.

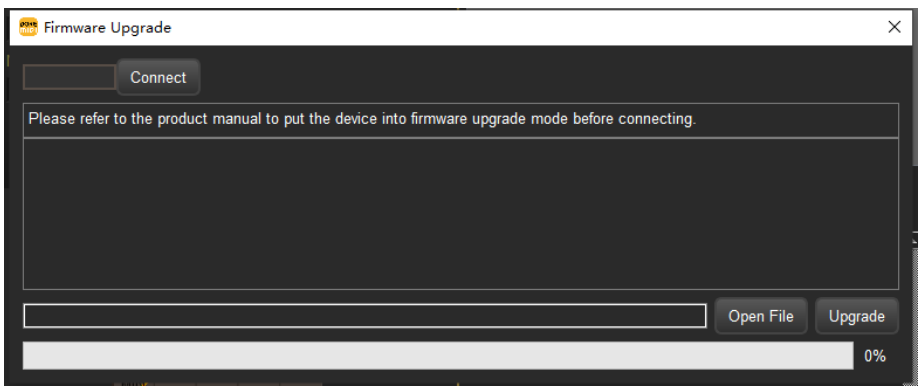


- Factory Reset: When the software is connected to the product, click "Factory Reset" to clear all product configurations.



- Firmware Upgrade: Firmware upgrade, operate the DOREMiDi product to enter the upgrade mode, then connect to the computer, and use the firmware upgrade function of this software to upgrade the product's firmware.

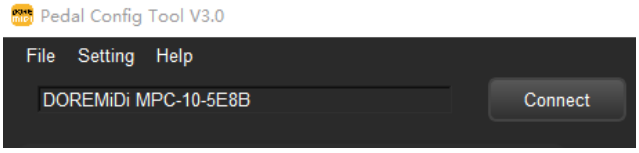
(Note: ①Please pay attention to the official website for the launch of new firmware: www.doremidi.cn ② The operation upgrade mode of different products may be different, please refer to the product manual. ③ On Windows PC, if the software cannot recognize the device, please install the USB driver (this driver is only applicable to Windows system):
https://www.doremidi.club/download/Product/Upgrade/Virtual_COM_Port_Driver_V1.5.0.zip)



4.2.2. Main interface

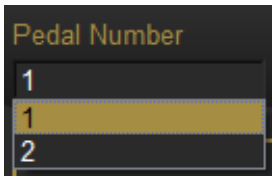
a. Connecting the device

When the DOREMiDi pedal is connected to the computer, you can select the pedal device to connect, named "DOREMiDi ***", click "Connect" to connect the product and get the number of pedals.



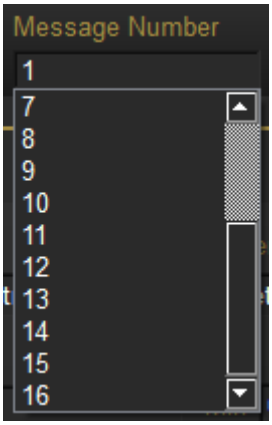
b. Pedal Number

The pedal number will be displayed when the product is connected to the configuration software "Pedal Config Tool". The number of pedals is determined by the product. If the product is connected to a dual-switch pedal, the pedal number will increase.



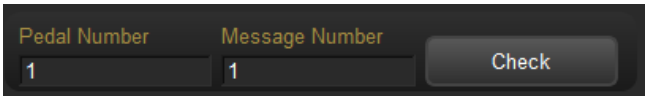
c. Message Number

MIDI message number, select the MIDI message number that needs to be configured for the current pedal. Each pedal number supports up to 16 independent MIDI messages. Through this parameter, one pedal can be configured to trigger multiple MIDI messages.



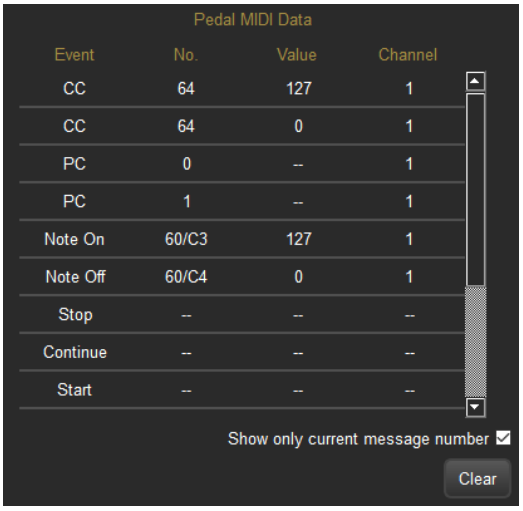
d. Check

Check the pedal interface. Click "Check" to check the MIDI message content configured by the current pedal number and MIDI message number. After the product is connected to the pedal, the pedal type can be identified.



e. Pedal MIDI Data

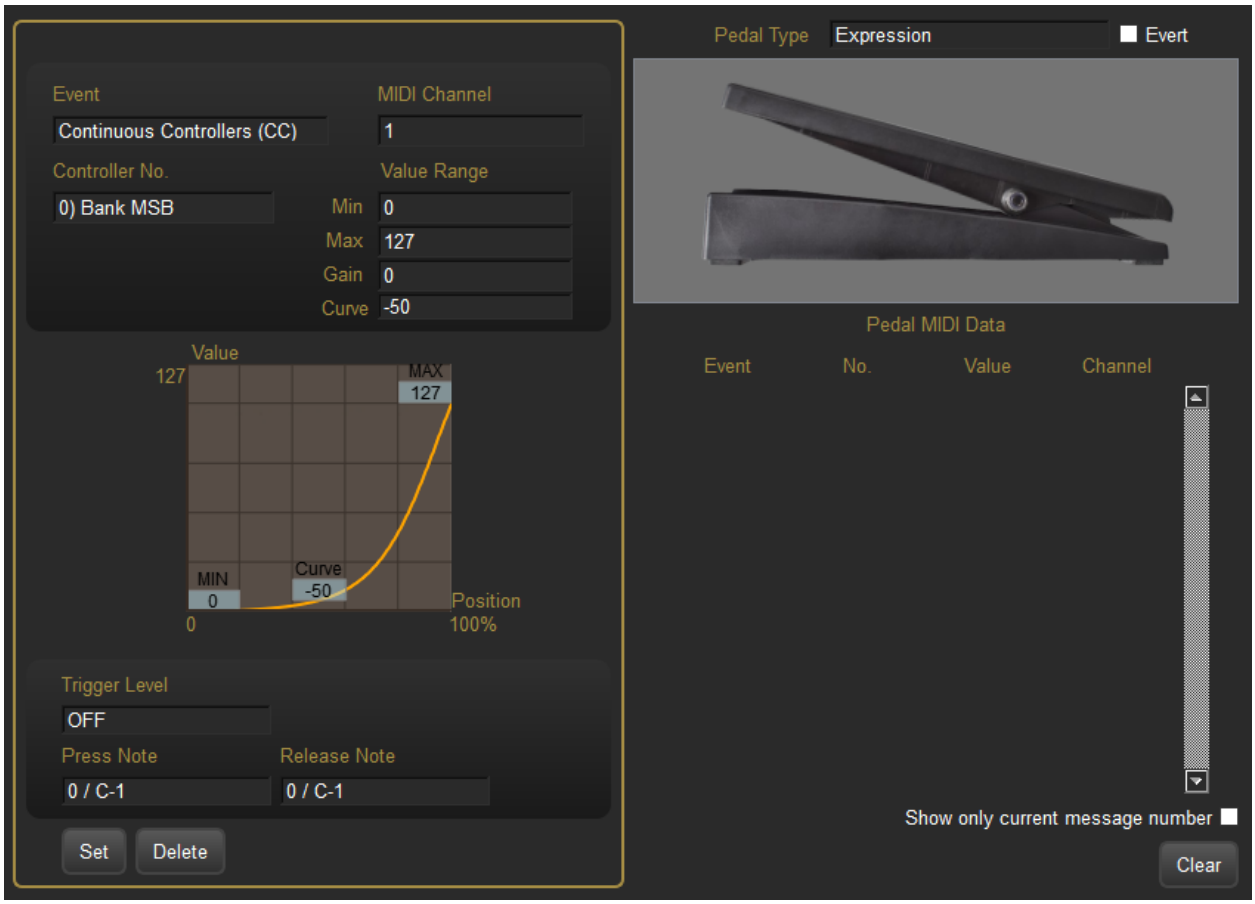
Display the MIDI data content generated by the current pedal. It is displayed in decimal. Click "Show only current message number" to display only the MIDI data of the current MIDI message number (Message Number). Click "Clear" to clear the display.



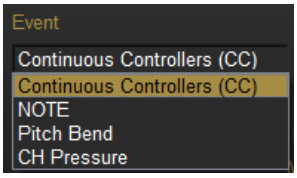
f. Pedal Type

This software supports configuration of expression pedal, switch pedal, hi-hat pedal. Switch pedal supports sustain pedal, double switch pedal, etc. After the product is connected to the pedal, click "Check" to identify the pedal type. If the pedal is not connected, you can also directly select the pedal type and configure the MIDI message.

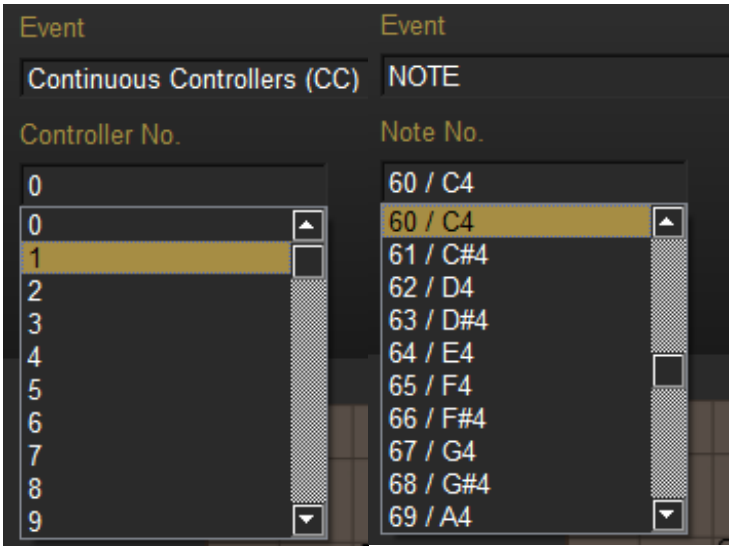
4.2.3. Configuring the Expression Pedal



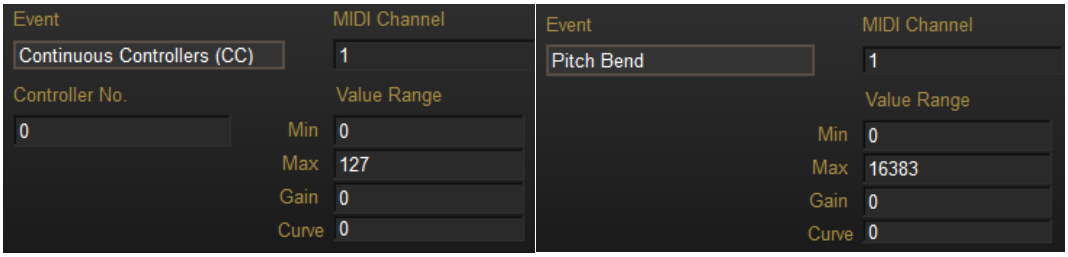
- **Event:** MIDI message event, set the event type of MIDI message. The expression pedal supports the configuration of Continue Controller (CC)/ NOTE/Pitch Bend/Channel Pressure.



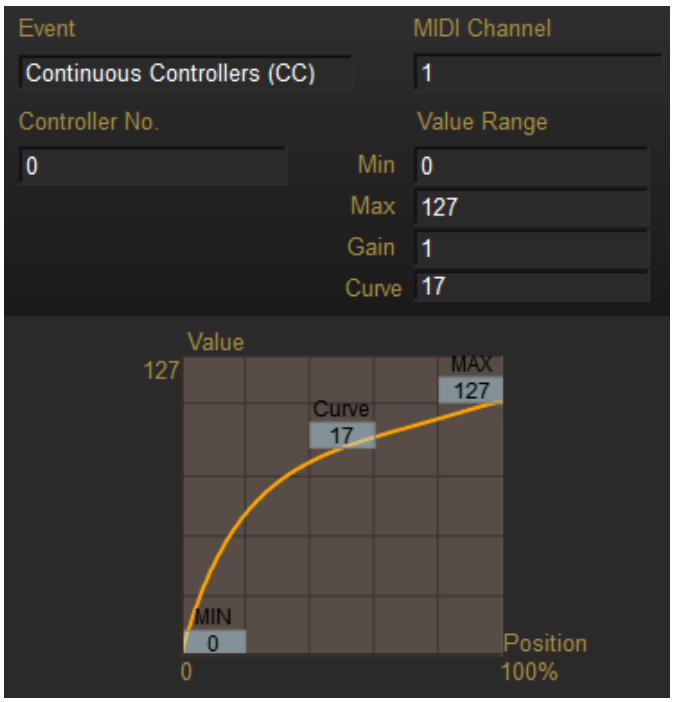
- **MIDI Channel:** set the MIDI channel of MIDI message, and you can choose 1~16 MIDI channels.
- **Controller No.:** When Event is configured as CC controller, you can select the number of CC controller through "Controller No."
- **Note No.:** When Event is configured as NOTE, you can select the note number through "Note No."



- **Value Range:** You can set the minimum value (Min) and maximum value (Max) of the MIDI value range. When Event is CC/NOTE/Channel Pressure, the MIDI maximum value is 127. When Event is Pitch Bend, the MIDI maximum value is 16383.

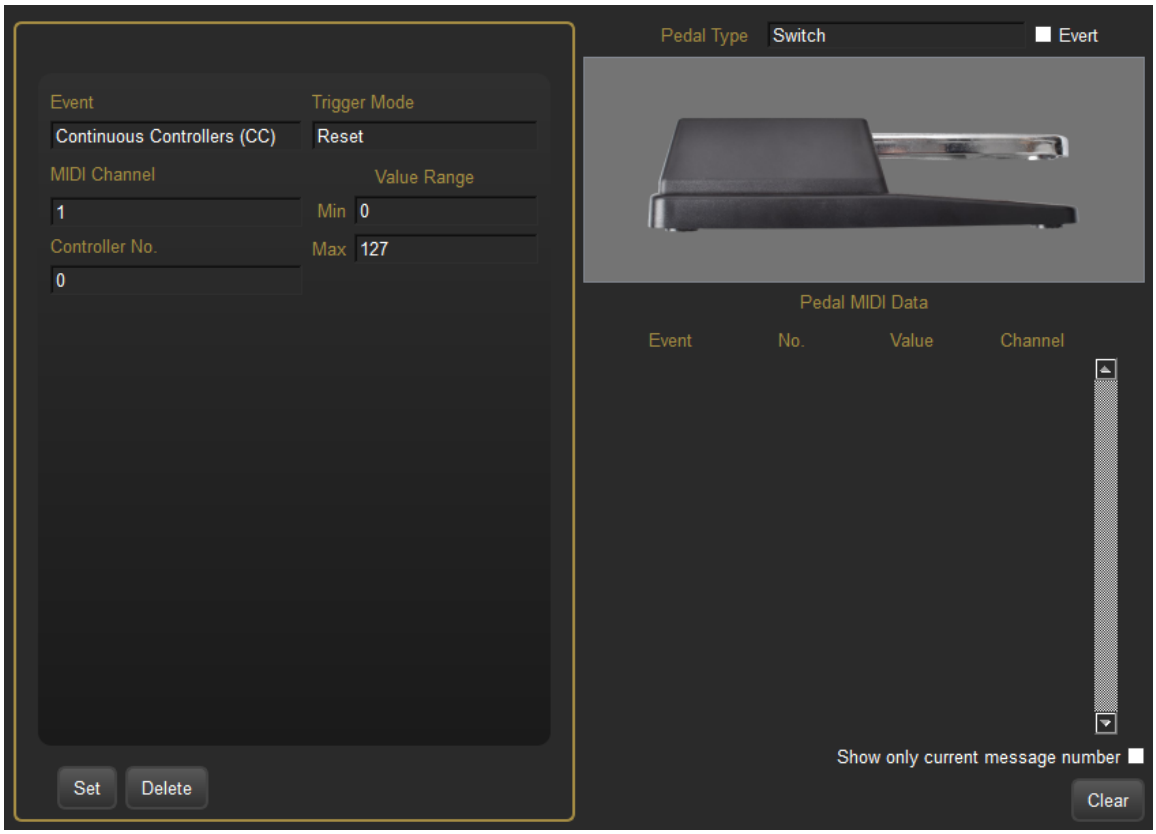


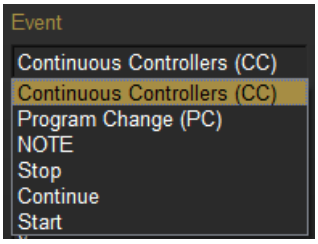
- **Gain:** Set the gain of the MIDI value, the default is 0, and you can set the gain to ±50, corresponding to the pedal position of ±50%.
- **Curve:** Set the curve of the MIDI value. After setting, the MIDI value will generate the MIDI value according to the curve through the position of the expression pedal. Drag the curve to change Curve/Max/Min.



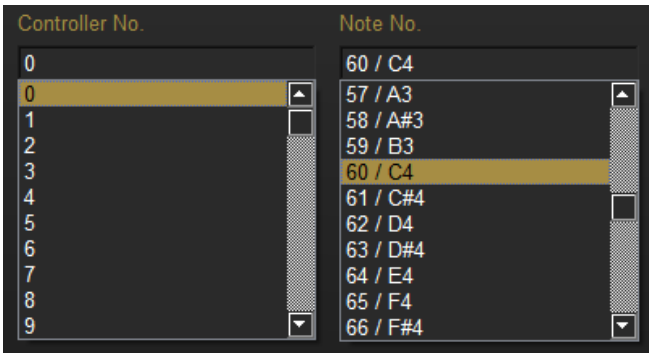
- **Trigger Level:** You can set the expression pedal to trigger the MIDI Note value. When the MIDI value reaches the trigger level, it can trigger Press Note and Release Note. It can be set to OFF, 1~127. When Event is a note (NOTE), the trigger level is not available.
- **Press Note:** When the MIDI value rises to the Trigger Level, the product will send a Press Note note.
- **Release Note:** When the MIDI value drops to the Trigger Level, the product will send a Release Note note.

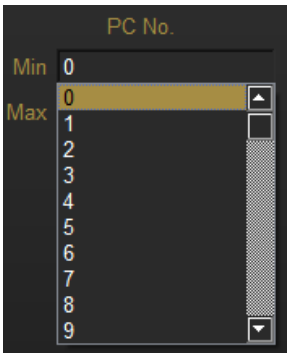
4.2.4. Configuring the switch pedal





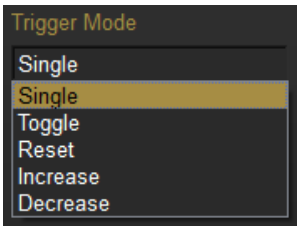
- **Event:** MIDI message event, set the event type of MIDI message, the switch type pedal supports Continue Controller (CC)/ Program Change / Note / Stop/ Continue / Start.
- **MIDI Channel:** Set the MIDI channel of MIDI message, you can choose 1~16 MIDI channels. When the MIDI event is Stop/Continue/Start, you don't need to set the MIDI channel.
- **Controller No.:** When the Event is configured as CC controller, you can select the CC controller number through "Controller No."
- **Note No.:** When the Event is configured as note (NOTE), you can select the note number through "Note No."
- **PC No.:** When the Event is configured as Program Change, you can select the sound number through "PC No."





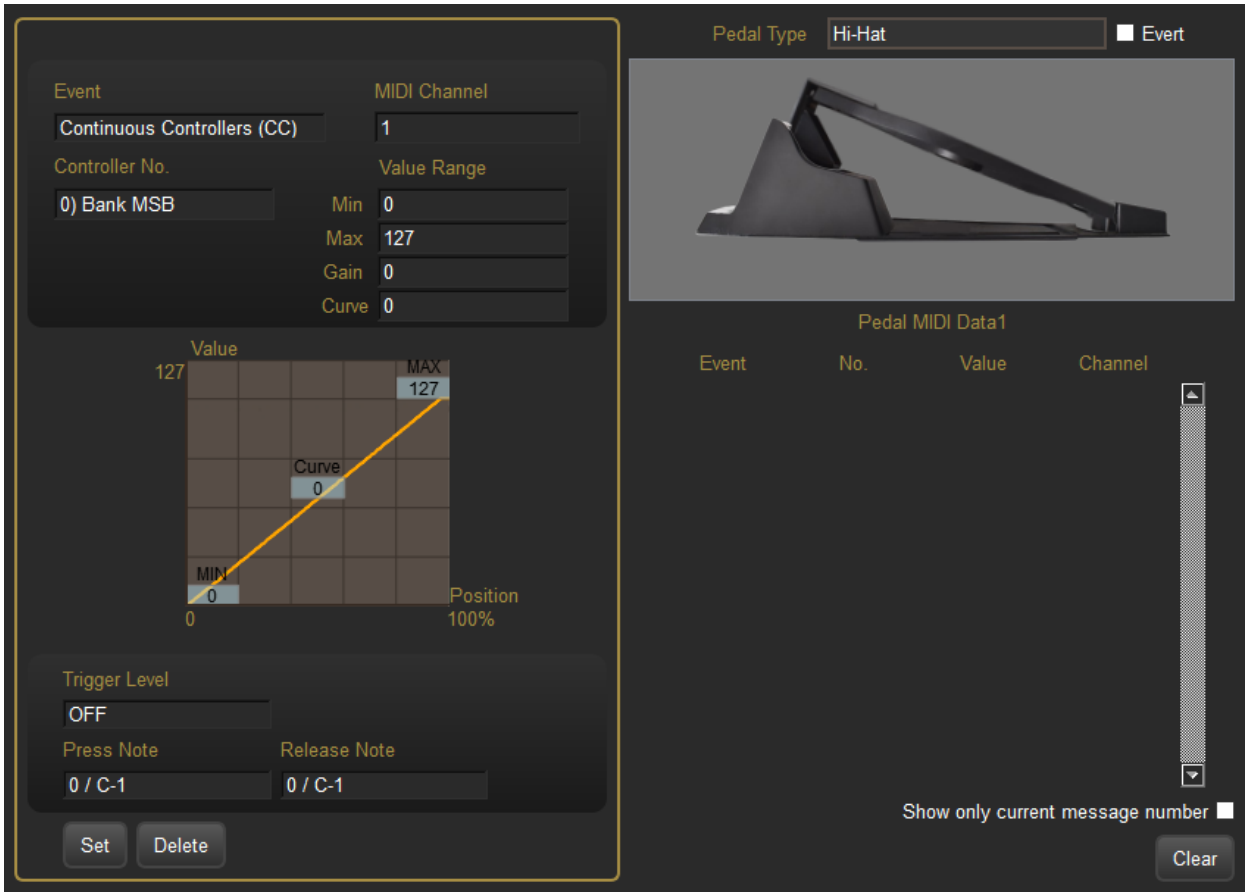
- **Value Range:** You can set the minimum value (Min) and maximum value (Max) of the MIDI value range. When Event is CC/NOTE/PC, the maximum MIDI value is 127. When Event is Stop/Continue/Start, there is no MIDI value.

- **Trigger Mode:** configure the mode of the switch pedal triggering MIDI messages, the following modes can be configured:

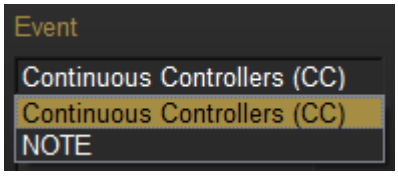


Trigger Mode	Description
Single	Each time the pedal is pressed and released, only the Min value is sent once.
Toggle	Each time the pedal is pressed and released, the Min and Max values are sent alternately.
Reset	When the pedal is pressed, the Max value is sent, and when it is released, the Min value is sent.
Increase	Each time the pedal is pressed and released, the value will increase from Min to Max
Decrease	Each time the pedal is pressed and released, the value will decrease from Min to Max

4.2.5. Configuring the Hi-Hat Pedal

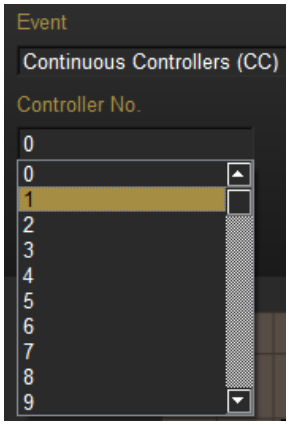


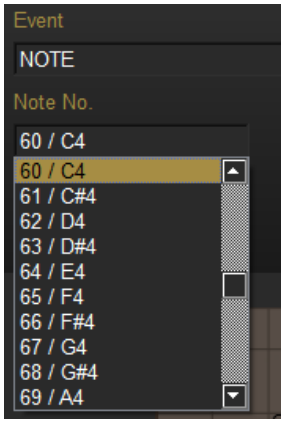
- **Event:** MIDI message event, set the event type of MIDI message. The expression pedal supports Continue Controller (CC) / NOTE.



- **MIDI Channel:** Set the MIDI channel of MIDI message. You can select 1~16 MIDI channels.

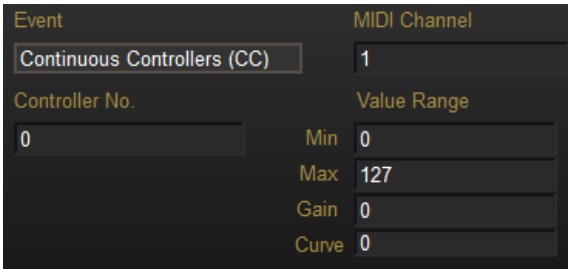
- **Controller No.:** When Event is configured as CC controller, you can select the CC controller number through "Controller No."



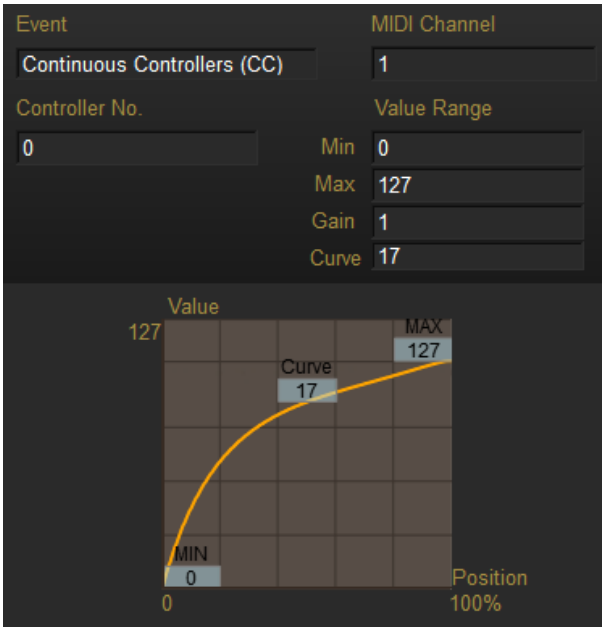


- **Note No.:** When Event is configured as note (NOTE), you can select the note number through "Note No."

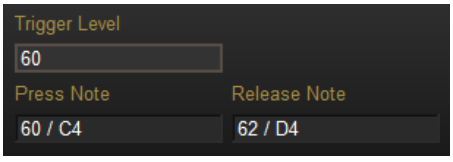
- **Value Range:** You can set the minimum value (Min) and maximum value (Max) of the MIDI value range. When Event is CC/NOTE, the MIDI maximum value is 127.



- **Gain:** Set the gain of MIDI value. The default is 0. You can set ±50 gain, corresponding to ±50% pedal position.
- **Curve:** Set the change curve of MIDI value. After setting, MIDI value will generate MIDI value according to the curve through the position of expression pedal. Drag the curve to change Curve/Max/Min.



- **Trigger Level:** You can set the Hi-hat pedal to trigger the MIDI Note value. When the pedal is pressed quickly and reaches the MIDI value of Trigger Level, Press Note can be triggered, and Release Note will be triggered when released. It can be set to OFF, 1~127.



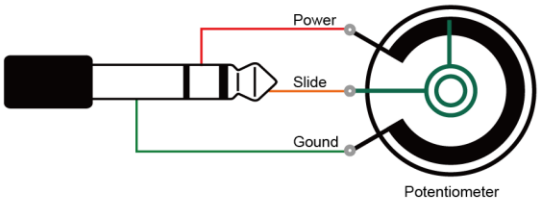
- **Press Note:** When the pedal MIDI value rises to Trigger Level, the product will send Press Note.

- **Release Note:** When the pedal MIDI value drops to Trigger Level, the product will send Release Note.

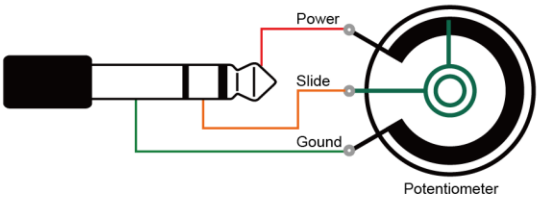
5. Plug type of pedal

MPC-10 supports a 6.35mm plug, which can be connected to a positive expression pedal, a reverse polarity expression pedal, a sustain pedal, a dual-switch pedal, and an electronic drum hi-hat. The pedal plug is shown in the figure:

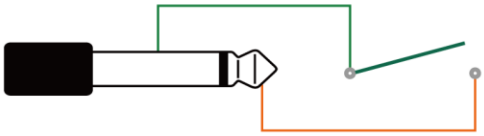
Expression Pedal (Positive Polarity)



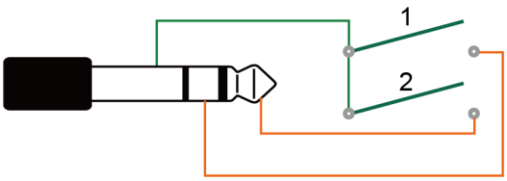
Expression Pedal (Reverse Polarity)



Sustain Pedal (Switch Pedal)



Dual-Switch Pedal



FSR Electronic Hi-Hat

6. Precautions

1. This product contains a circuit board.
2. Rain or immersion in water may cause the product to malfunction.
3. Do not heat, press, or damage internal components.
4. Non-professional maintenance personnel are not allowed to disassemble the product.
5. The working voltage of the product is 5VDC, using a voltage lower or exceeding this voltage may cause the product to fail to work or be damaged.

6. Q&A

6.1. Question: The pedal type detected on the configuration software is incorrect.
Answer:

- Please make sure that the pedal has been connected to MPC-10 normally.
- If you are connecting an expression pedal, please try to place the pedal in the middle range, and then click "CHECK" to detect.

6.2. Question: Is it possible to set MIDI messages if no pedal is connected?
Answer: Yes, but only the expression pedal and sustain pedal can be set, and the dual pedal function cannot be set. After setting, you must ensure that the corresponding pedal type is connected correctly during use. (It is recommended to connect the pedal before setting, so as to avoid setting errors)

6.3. Question: The USB cannot be connected to the computer.

- After confirming the connection, whether the indicator light flashes;
- Confirm whether the computer has a MIDI driver. Generally speaking, the computer comes with a MIDI driver. If you find that the computer does not have a MIDI driver, you need to install the MIDI driver. Installation method: https://windowsreport.com/install-midi-drivers-pc/

6.4. Question: Firmware upgrade failed.
Answer: When the upgrade is complete, wait for about 5 seconds (USB indicator light changes from fast flashing to slow flashing) and then disconnect the USB of the product and re-power the product.

6.5. Question: The switch pedal is connected, but the product does not recognize it, or the number of recognized pedals is incorrect.
Answer: Please check whether the switch pedal has a self-locking function. Please turn off the switch of the pedal and then connect it to the product.

If the problem is not resolved, please contact customer service.

Manufacturer: Shenzhen HuaShi Technology Co., Ltd.

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