MIDI I/O

MANUAL v.1b

MORE THAN LOGIC. UNITING ART + ENGINEERING.


meris

CONTACT

email: info@meris.us

phone: 747.233.1440

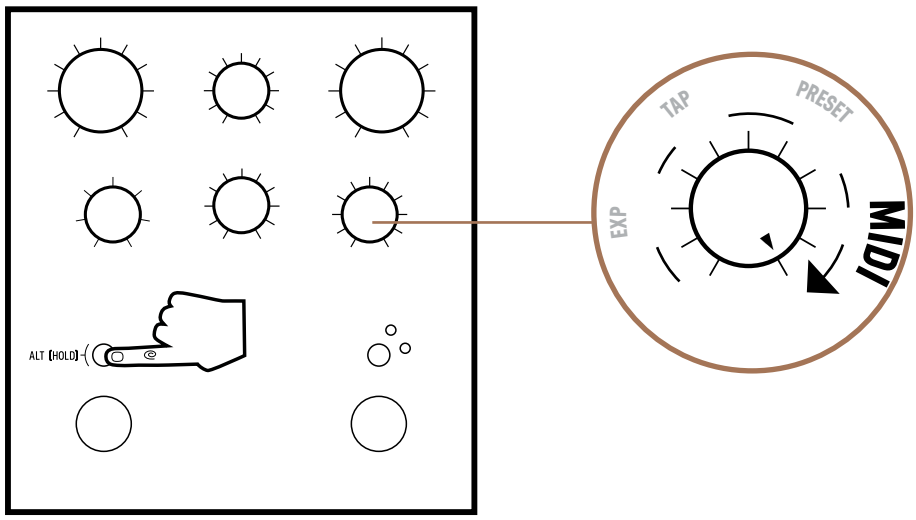
website: www.meris.us

TABLE OF CONTENTS

SECTION 1 - SETUP

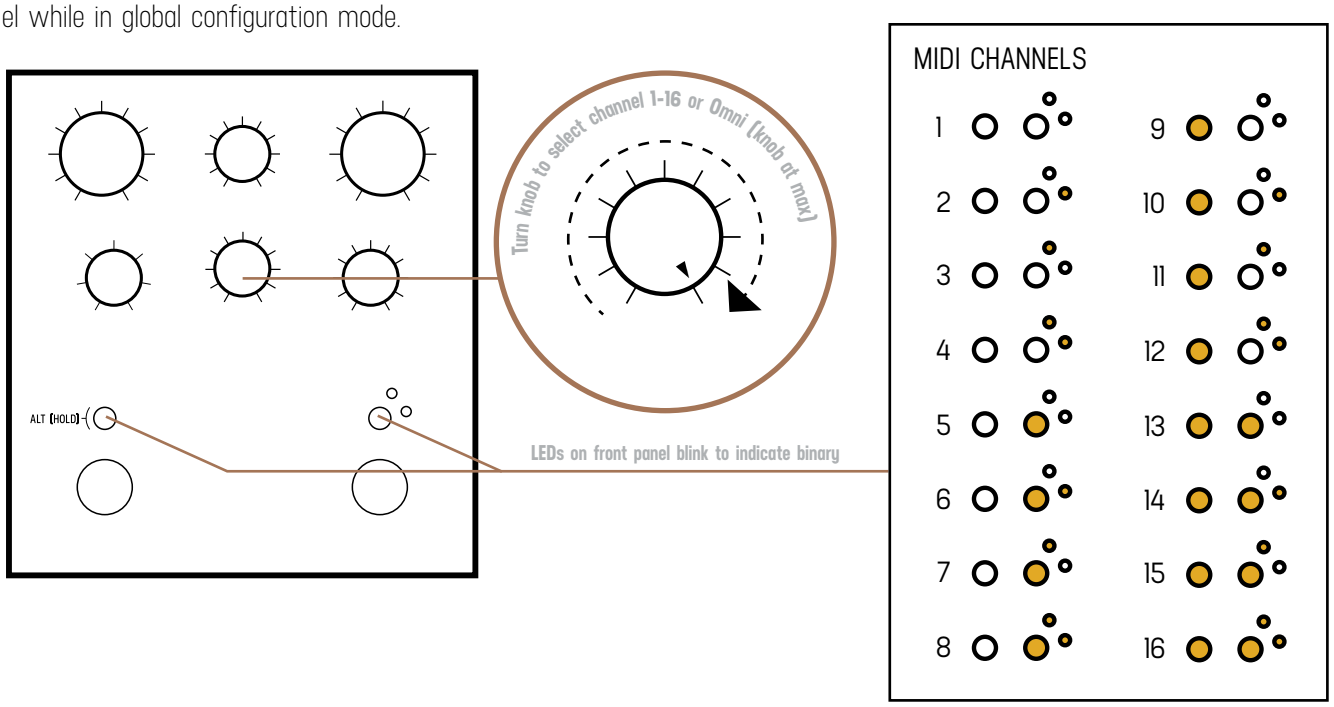
Section 1a. EXP Mode

First set your Meris pedal EXP jack to "MIDI" using the pedal's global configuration mode. Refer to your particular pedals quick start guide for specifics, but generally you need to first hold the Alt switch on power up for 3 seconds, all of the front panel LEDs will blink 3 times. Then, using the appropriate knob (bottom row right most knob), select the "MIDI" mode (twist the knob all the way clockwise).



Section 1b. MIDI Channel

After configuring your Meris pedal for MIDI, next select the MIDI channel you would like for each of your pedals. Channels 1-16 are available, as well as OMNI (which reacts to messages on any channel). **For individualized control of each pedal, we recommend setting each pedal to a different channel.** Use the bottom row middle knob of your Meris pedal to select the MIDI channel while in global configuration mode.

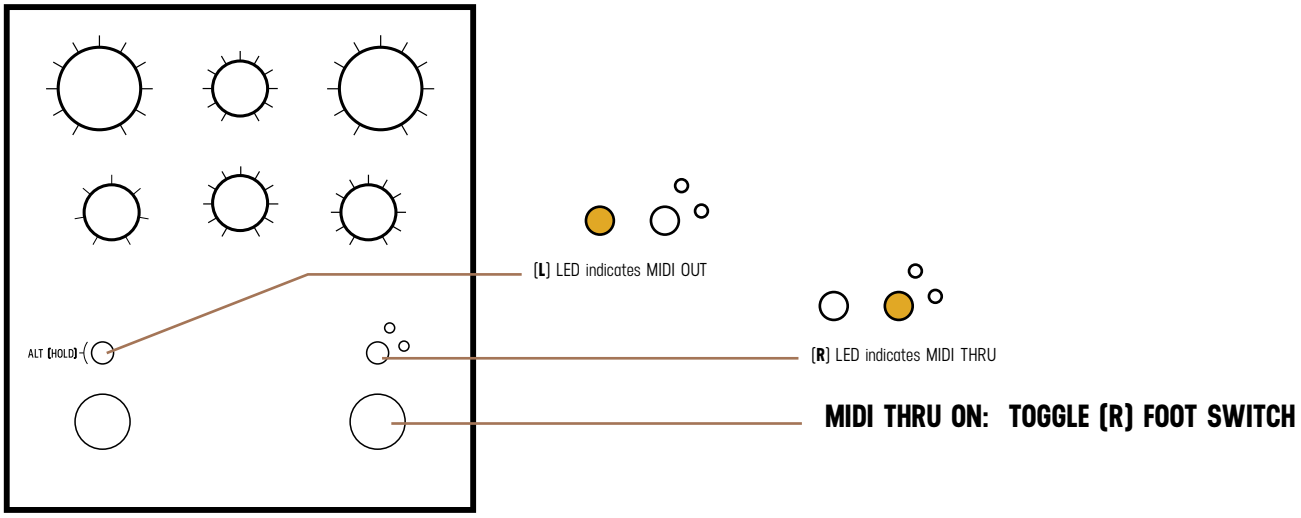


Section 1c. MIDI Thru

There are two MIDI output modes in each Meris pedal, and depending on your setup and use cases one will suit you better than the other.

MIDI Thru:
Knob turns and switch presses do not create any MIDI messages. Any MIDI input messages that the pedal receives are passed along to the output (which creates the "thru"). This is the most typical mode. Use this mode if only want to use MIDI to control the pedal and you would not like to use the pedal to control any other gear further down the chain.

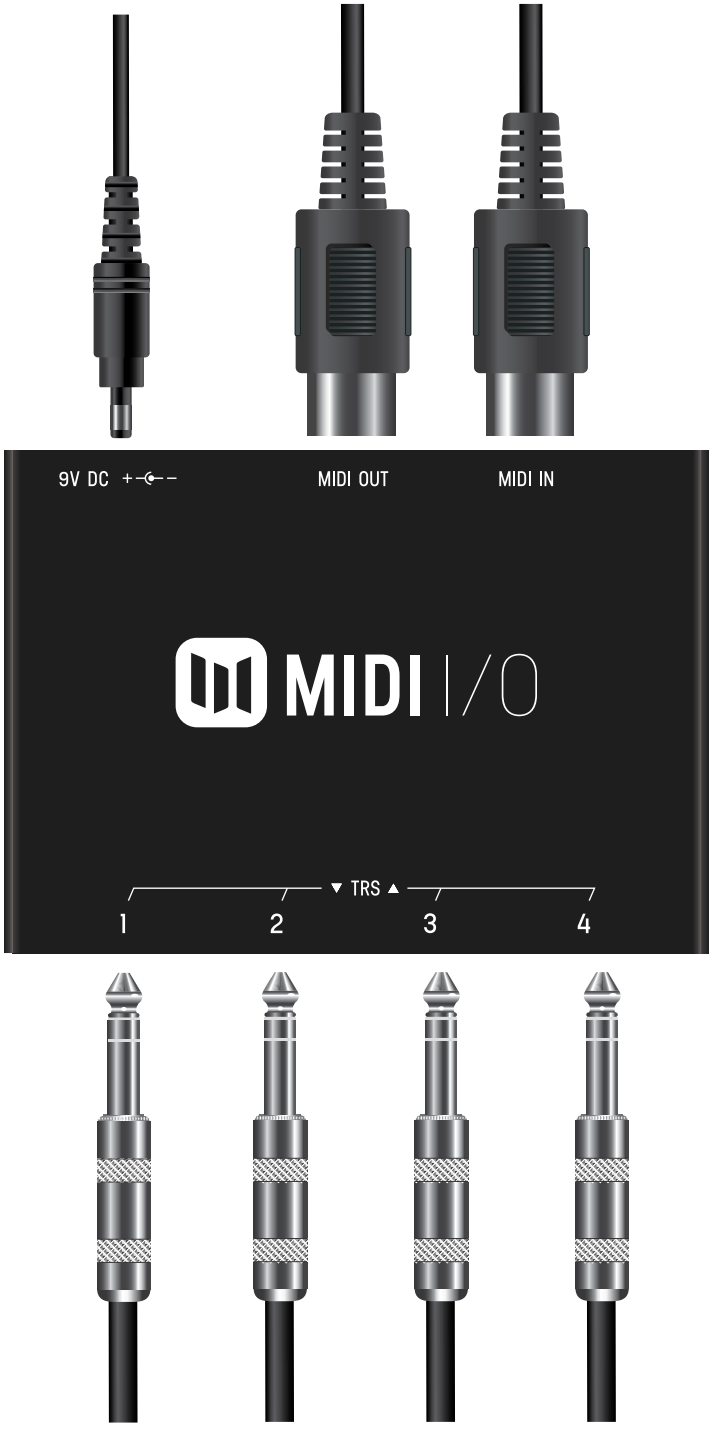
MIDI Out:
For every knob turn and button switch on your pedal, a MIDI messages is sent to the output. Any MIDI input messages that the pedal receives are also passed along to the output as well. Use this mode if you want to synchronize with or control external gear, like recording MIDI knob movements with your DAW.



Note: Power cycle to exit and store your changes.

Section 1d. Cable Connections

Now with the pedal configuration complete, simply unplug your pedal to store the setting. Now make your connections on your board. Connect MIDI In and MIDI Out using DIN cables. Connect your Meris pedals to the MIDI I/O using TRS cables. And finally, power the MIDI I/O (and your pedals) using center negative 9v DC supplies.



SECTION 2 - USAGE

Section 2a. Preset Selection:

Our Meris pedals respond to MIDI program change messages to select and enable each preset. Here are some things to remember as you setting up your MIDI controller to work with Meris pedals using the MIDI I/O:

Program change message 0 will bypass a Meris pedal.

Program change messages 1 through 16 with select and enable presets 1 through 16.

To select and turn on a preset from your MIDI controller, simply send a single program change message.

If you wish to select a preset but keep the pedal in bypass, send a single program change followed by a single continuous controller message to bypass (more on MIDI CCs below). Most programmable MIDI Controllers allow you to send multiple messages per switch.

Section 2b. Remote Control of Knobs and Switches:

Every knob, switch, alternate function, mode, and expression pedal, are available via MIDI CCs (continuous controller messages). The pedals will always be listening for MIDI CCs, and depending on the MIDI Thru setting, will generate MIDI CCs for each selection on the UI.

Please refer to your individual manual for a complete list of MIDI CCs for your particular Meris pedals.

The most common use for MIDI CCs you will most likely encounter is for expression pedal control. Most MIDI controllers will let hook up an expression pedal so that you can send expression pedal data over CC. This opens up the useful option of changing presets via PCs while controlling your Meris pedal with an expression pedal at the same time.

SECTION 3 - SENDING AND RECEIVING PRESETS

Using the MIDI I/O to connect both MIDI Input and MIDI Output to your Meris pedal opens up the option of both sending and receiving presets between your Meris pedal and an external device like a PC or tablet. MIDI presets are sent via SysEx messages.

For best results with multiple pedals, choose different MIDI channels [**See Section 1b**]. Make sure you have your pedal set to MIDI OUT [**See Section 1c**].

Section 3a. Sending your Current Preset:

To send your current preset to connected device, hold the Alt button and press the other LED soft switch, that's it. Preset is sent! Make sure you have an application open and waiting to record MIDI SysEx. On Mac, our favorite application for recording presets is **SysEx Librarian**.

Section 3b. Receiving a Preset:

To receive a preset on your connected device, simply send it using your favorite librarian (again, ours is SysEx Librarian) to your pedal. A Meris pedal is always listening for presets. If you like the new preset that you've sent over, press and hold the Alt button to save. If you decide you do not like the preset you just sent to the pedal, then do not save. In the case that you chose not to save the new preset, the original preset in that location will load as usual during the next program change message or power cycle.

SECTION 4 - ADVANCED CONTROL - SYSEX

Sysex is short for System Exclusive messages, and are created by manufacturers to allow convenience and deeper control by stringing together bytes in a much longer message than Program Changes (PC) and Continuous Controller (CC) messages. These are mostly commonly used to work with editors and librarians (and we do just that for sending and receiving our presets).

Along with sending and receiving presets, you can use your MIDI I/O to change global settings. Brace yourselves! Here is the Sysex breakdown for changing your global settings on the fly:

Example Message: F0 00 20 10 00 01 00 2A 00 7F F7

F0	Header
00 20 10	Meris ID (different manufacturers have different IDs)
00	Prod ID (user definable, matches midi channel)
01	Group ID (01 = pedal series)
00	Model # (00 = Ottobit Jr, 01 = Mercury7, 02 = Polymoon)
2A	Command (2A = global edit via syex)
00	Global Num (listed below, 0 is TRS input)
7F	Value (00 = OFF, 7F = ON)
F7	Footer

Global Num values

00 indicates a change to GLOBAL_TRS_IN

01 indicates a change to GLOBAL_INPUT_LEVEL

02 indicates a change to GLOBAL_RELAY_BYPASS

03 indicates a change to GLOBAL_KILL_DRY

04 indicates a change to GLOBAL_TRAILS

05 indicates a change to GLOBAL_TEMPO_SELECT

SECTION 5 - WORKING WITH OTHER PEDAL MANUFACTURERS

The Meris MIDI I/O works with most other pedal companies that employ TRS over MIDI. We should work right out of the box with Empress who (just like us) transmit MIDI on the ring and receive MIDI on the tip of the TRS cable.

For use with Chase Bliss pedals, you will need to create a custom cable, since they receive MIDI on the ring of the TRS cable (they currently do not transmit).

Also, keep in mind, that Meris pedals both send and receive MIDI. To keep things working seamlessly for you, the Meris MIDI I/O passes MIDI from the output of one pedal to the input to the next. Where as other pedals may or may not rebroadcast MIDI data from In to Out. Check with the manuals of your other pedals to make sure the data is flowing properly in your setup.

SECTION 6 - TECHNICAL SPECIFICATIONS

Power	9V DC center-negative, 10mA, 2.1mm jack
Dimensions	3.7" wide, 2.6" deep, 1.5" tall
Weight	6.4 ounces