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# MIDITEMP

## FSM

Footswitch-to-Midi Controller



## Owner's Manual

## Thank you for purchasing a Miditemp® - Product. ☺

FSM was developed due to lots of our user's and customer's demands, just like many other products made by MIDITEMP.

With FSM you can control midi-devices by using 2 switches and 2 pedals simultaneously. You can use several midi-channels for each connector, and up to approx. 14 controllers per connector can be used (switches only!) = 40 bytes.

Even note-on/off (switches only) or SYSEX-data messages can be sent.

Pedals are used for to send midi-continuous data like volume, portamento-time, expression, reverb-time etc.

FSM operating settings simply are made by sending a SYSEX-flash via MIDI-input into it, that's all.

On one side you find 4 connectors, TRS 6,3", to connect your switches/pedals, on the other side you find the midi-connectors (Midi IN/OUT) and a connector for a standard DC-Adaptor, 9V. Please care for the correct polarity! FSM also can be powered via midi-in, so no DC- Adaptor will be needed then. Incoming midi-data are forwarded to midi-out, so you can put the FSM between a midi-connection.

The connector for pedals is a TRS 6,3" stereo-connector, for to use expression-pedals, the connectors for switches/latches is a 6,3" mono-connector.

Setup:

FSM automatically recognizes the polarity of the connected switch/latch, when you connect them the first time onto it – when it's already powered, of course. The pedals please open/close once after connecting – FSM automatically recognizes the value of the pedal's poti and stores it! As long as you always use the same pedals at the same connector, you don't need to care for these setup-procedures anymore.

Only when changing the pedal/switch/latch you have to do this setup again!

All settings for FSM are done by a SYSEX-flash – as a standard midi file - via midi-IN und and stored automatically then.

You can configure your FSM completely at your choice.

So for example to select whether you use a switch-pedal or a latch-pedal.

For example to send note-on to start a sample/loop and to stop it again when you release the latch.

Or (called the "Toggle-Mode") rather to start a sample/loop by pedal and to play it to its end, even you release the latch again – your choice! For these operations better a latch is used – no switch.

Basically a SYSEX-order to flash the FSM looks like that:

<u>F0</u>	<u>–</u>	<u>00</u>	<u>–</u>	<u>20</u>	<u>–</u>	<u>0D</u>	<u>–</u>	<u>7F</u>	<u>–</u>	<u>07</u>	<u>–</u>	<u>00/01/02/03/04</u>	<u>–</u>	<u>DATA</u>	<u>–</u>	<u>F7</u>
Start		Miditemp-ID		Midichannel		Device-ID		Connector 1-4		Midichannel		see		rider		End
				(7F=ignore)		(=FSM)		(00=Pedal 1)		FSM (04)						

00 = switch/latch 1 / 01 = switch/latch 2 / 02 = pedal 1 / 03 = pedal 2 / 04 = Midichannel of the FSM  
By using only one single FSM parameter 04 is irrelevant!

When you want to use multiple FSM's, they are differed by using several midi-channels. The please change the value of the 7F – parameter!

Each connector has to be programmed by a single SYSEX-flash order, so if you want to program all the 4 connectors, you have to send 4 SYSEX-flashes to your FSM. Special apps for the "Toggle-Mode" might take 2 flashes at least!

On the attached rider „Midi-Implementation“ you find several examples of settings. Further detailed examples you will find at our homepage, "Downloads/FSM" just as ready-made flashes as standard midi-file.

If you make flashes for your personal apps, we would be pleased if you email us those midi-files. We will add them to our download-section to provide them to other FSM users! ☺

### Factory settings FSM (2x latch / 2x pedal):

Switch 1: CC72-75 (= FX Mute Yamaha 01V/96) - midi channel 2

Switch 2: Start/Stop

Pedal 1: CC11 (Expression) - midi channel 1

Pedal 2: CC11 (Expression) - midi channel 2