

KENTON electronics

INSTRUCTIONS FOR MIDI INTERFACE KORG POLY 61

USING THE MIDI INTERFACE

When you turn on the synthesizer for the first time, you will be in omni-on mode for receive (all channels) and channel 1 for transmit - See next page for factory default settings. When you select a transmit or receive channel, this will be stored in memory and will be remembered for when you subsequently turn on the synth - all parameters listed on the next page are stored.

If you want to put the machine back to the factory default settings at any time, switch the synth on whilst holding the red push button pressed - hold for a couple of seconds then release.

RED PUSH BUTTON

Three modes are available by pushing the red push button. Before you press the red button however, make sure that no notes are pressed on the synth otherwise the results may be unpredictable.

1) PATCH CHANGE MODE

Pressing once only enters patch change mode. Any key then selects a patch change which it sends through MIDI. You are then automatically returned to playing mode.

2) SET-UP MODE

Setting MIDI channels and assignments. Give the red push button two short presses (half a second each) - then release. Follow this with a note or sequence of notes as detailed on page 2. After selecting a channel you will be automatically returned to playing mode but after making assignments you will need to press the ENTER key (Top C) to return to playing mode. This is to enable you to make the multiple key presses required when re-assigning sources to destinations. (N.B. set-ups are stored in non volatile memory).

3) TRANSPOSE MODE

Press and hold the red push button for four seconds - then release. Middle C will sound on the synth and continue to sound until you press a key. The note that you press will be the new middle C for MIDI IN. You can set any value up to two octaves up or down. Settings outside this range will be ignored. Note that transpose mode cannot be entered from program mode.

ASSIGNING MIDI CONTROL SOURCES TO DESTINATIONS

<i>SOURCES</i>	<i>DESTINATIONS</i>	(d)=factory default
AFTERTOUCH	off / modulation (d) / p.bend / vcf / not used	
CONTROLLER X	off / vcf (d) / not used	
CONTROLLER Y	off / vcf / not used (d)	
VELOCITY	off (d) / vcf / not used	
MIDI VOLUME	off / not used (d)	

Sources can control more than one destination at once, but a destination can only be controlled by one source at a time. Thus if velocity is currently controlling VCF and then you switch aftertouch to VCF, velocity will then control nothing until re-assigned.

C	Receive channel	1	[Bottom C] MIDI note number 36
Db	" "	2	
D	" "	3	
Eb	" "	4	
E	" "	5	
F	" "	6	
Gb	" "	7	
G	" "	8	Selecting a receive channel
Ab	" "	9	will automatically put the
A	" "	10	MIDI into omni off mode.
Bb	" "	11	That is, it will receive on
B	" "	12	the selected channel only.
C	" "	13	
Db	" "	14	
D	" "	15	
Eb	" "	16	
E	Omni on mode	(default)	
F	Transmit channel	1	(default)
Gb	" "	2	The transmit channel can be
G	" "	3	changed independently of the
Ab	" "	4	of the receive channel, and
A	" "	5	can be set even during omni
Bb	" "	6	on mode.
B	" "	7	
C	" "	8	[Middle C] MIDI note number 60
Db	" "	9	
D	" "	10	
Eb	" "	11	
E	" "	12	
F	" "	13	
Gb	" "	14	
G	" "	15	
Ab	" "	16	
A	Transmit Key on velocity	decrease	:
Bb	" " " "	normal (default)	: not stored
B	" " " "	increase	:
C	Transmit Key off velocity	decrease	:
Db	" " " "	normal (default)	: not stored
D	" " " "	increase	:
Eb	program change	OFF	
E	" "	ON (default)	
F	p.bend & mod wheel	OFF	
Gb	p.bend	ON (default)	
G	mod wheel	ON (default)	
Ab	controller Y	ignored (see page 3 re controller Y)	
A	"	vcf	
Bb	"	not used (default)	
B	controller X	ignored (see page 3 re controller X)	
C	"	vcf (default)	
Db	"	not used	
D	aftertouch	ignored	
Eb	"	modulation (default)	
E	"	p.bend (up only)	
F	"	vcf	
Gb	"	not used	
G	velocity	ignored (default)	
Ab	"	vcf	
A	"	not used	
Bb	MIDI volume	ignored	
B	"	not used (default)	
C	ENTER key	Press and release. [Top C] MIDI note no. 96	

NOTES

1) Controller X can be any MIDI controller. After pressing the red push button twice to enter SET-UP mode, operate the required MIDI controller before pressing the C or Db key that will assign it. If you do not operate a controller before pressing the C or Db key, then controller X will respond to MIDI controller 16 - that is General purpose controller 1 (10 hexadecimal) 0

2) Controller Y can be any MIDI controller. After pressing the red push button twice to enter SET-UP mode, operate the required MIDI controller before pressing the A or Bb key that will assign it. If you do not operate a controller before pressing the A or Bb key, then controller Y will respond to MIDI controller 17 - that is General purpose controller 2 (11 hexadecimal)

3) Controller X/Y will take priority over other control messages, so if controller X/Y is the mod wheel, mod wheel messages will operate whatever controller X/Y is currently assigned to, instead of operating modulation.

4) Transmit/Receive channel and omni-on setting will return you directly to playing mode, all other keys will let you stay in SET-UP mode until you press the ENTER key (Top C)

5) The ENTER key (Top C) also resets all controllers to their default values - off in most cases - on for volume - centre for pitch bender.

6) Control change commands recognised - (numbers in decimal)

121 reset all controllers	01 modulation wheel
123 all notes off	07 Main volume
124 omni mode off (always poly)	64 sustain pedal
125 omni mode on (always poly)	94 select transpose mode
126 (mono mode) = all notes off	95 select set-up mode
127 (poly mode) = all notes off	
nnn Controller X (user defined where nnn = any controller)	
nnn Controller Y (user defined where nnn = any controller)	
Controller X default = 16	Controller Y default = 17

7) Other commands recognised - (numbers in hexadecimal)

8nH notes off	9nH notes on & velocity
BnH control change (see above)	CnH program change
DnH channel pressure (aftertouch)	EnH pitch-bend change
FEH active sensing	

MIDI CONTROL OF RED PUSH BUTTON

The red push button can be "pressed" via MIDI as MIDI switch number 95 (5Fh) for regular program mode or 94 (5Eh) for transpose mode. The selection of the push button is enough, it doesn't matter if it is being turned on or off.

In hexadecimal BX - 5F - 00 = program mode

In hexadecimal BX - 5E - 00 = transpose mode

Where X is the current MIDI channel.

[N.B. whilst in program/transpose modes the MIDI is in omni on mode]

MIDI CONNECTORS

MIDI IN should be connected to a MIDI OUT or a MIDI THRU similarly MIDI OUT should be connected only to a MIDI IN and a MIDI THRU should also be connected only to a MIDI IN.

MIDI OUT is the signal from the synthesizer (or drum machine etc.) that is to be sent to another instrument. MIDI IN is a received signal that contains MIDI information from another synth, and MIDI THRU is an exact copy of information arriving at the MIDI IN socket. This allows several instruments to be connected together.

If you want to wire your own MIDI cables the following information may be useful.

- 1) Although a 5 pin connector is used, only two connections plus an earth connection are required.
- 2) If you look at the din plug from the wiring side you will see that the pins are numbered. From left to right (or clockwise) these are 1 - 4 - 2 - 5 - 3.
- 3) The pins numbered 1 & 3 are not used.
- 4) The screen (earth) is connected to pin 2 (centre pin)
- 5) Pin 4 of one plug should be connected to pin 4 of the other
- 6) Pin 5 of one plug should be connected to pin 5 of the other
- 7) You should now have a working MIDI lead
- 8) It is preferable to label one end of the cable MIDI IN & the other end MIDI OUT, to avoid confusion.

WARRANTY

All Kenton MIDI Kits come with a 12 month (from purchase date) back to base warranty, (i.e. customer must arrange and pay for carriage to and from Kenton Electronics).

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