

Highly Reliable

MSA

Firmware Version 1.0

User Manual

Updated 2008-01-31

1.0 Overview

The MSA activates its outputs in response to incoming MIDI notes. The mapping of MIDI notes to MSA outputs is user-specified via DIP switch SW1.

The default state of each MSA output is "off". The output will activate and stay "on" for the duration of the corresponding MIDI note.

The standard MIDI note implementation is used: running status is supported and zero-velocity note-on messages are interpreted as note-off commands.

2.0 DIP Switch Settings

Use the DIP switch SW1 to change the MIDI response of the MSA. SW1 settings become active upon power-up. The MSA must be power-cycled to accept changes to SW1.

2.1 MIDI Channel

The MSA will respond to MIDI notes only on the MIDI channel specified by positions 1-4 of DIP switch SW1. Changes to MIDI channel become active at power-up.

Table 2-1: MIDI Channel Selection

MIDI Channel	SW1 Setting			
	1	2	3	4
1	off	off	off	off
2	off	off	off	on
3	off	off	on	off
4	off	off	on	on
5	off	on	off	off
6	off	on	off	on
7	off	on	on	off
8	off	on	on	on
9	on	off	off	off
10	on	off	off	on
11	on	off	on	off
12	on	off	on	on
13	on	on	off	off
14	on	on	off	on
15	on	on	on	off
16	on	on	on	on

2.2 MIDI Note Range

The MSA will respond to MIDI notes only on the MIDI channel specified by positions 5-8 of DIP switch SW1. Changes to MIDI channel become active at power-up.

Table 2-2: Note Range Selection

MIDI Note Range	SW1 Setting			
	5	6	7	8
0-7	off	off	off	off
8-15	off	off	off	on
16-23	off	off	on	off
24-31	off	off	on	on
32-39	off	on	off	off
40-47	off	on	off	on
48-55	off	on	on	off
56-63	off	on	on	on
64-71	on	off	off	off
72-79	on	off	off	on
80-87	on	off	on	off
88-95	on	off	on	on
96-103	on	on	off	off
104-111	on	on	off	on
112-119	on	on	on	off
120-127	on	on	on	on