MIDI Solutions Programmable Input Selector
Operating Instructions

The MIDI Solutions Programmable Input Selector (hereafter referred to as PIS) has two MIDI inputs, a single MIDI output, and a footswitch input. The inputs that incoming MIDI data is routed from are programmable and can be controlled by sending the PIS Program Change messages or tapping a footswitch. There are eight options for the LED to indicate which inputs are selected. The PIS can be programmed to send the All-Notes-Off and Sustain off messages when an input is turned on or off. All programmed settings are retained by the unit even after power is removed.

After receiving the following programming commands, the PIS's LED will flash rapidly for about a second to indicate that it has been programmed. Please allow a few seconds for the setting to be stored in the PIS's memory before sending the next command. Refer to the table below for conversions to hexadecimal values.

▸ The PIS can store up to 128 programs that specify which of the inputs are routed to the output. To store these programs in memory, send the PIS the following System Exclusive message (all values in Hexadecimal):

F0 00 00 50 1C 01 ab ab ab … F7 where **ab ab ab ...** are the program settings starting with Program #0

a and **b** are set as follows: **a** = 0: Nothing routed from InA
a = 1: All MIDI messages except notes routed from InA
a = 2: All MIDI messages routed from InA
b = 0: Nothing routed from InB
b = 1: All MIDI messages except notes routed from InB
b = 2: All MIDI messages routed from InB

Example: To program the PIS to route all messages from InA to the output in response to Program Change #0, and all messages from InB to the output in response to Program Change #1, send it the following programming command:
F0 00 00 50 1C 01 20 02 F7

▸ The PIS can be programmed to change programs in response to incoming Program Change messages, or by holding down or tapping a footswitch. The PIS can also send All-Notes-Off and Sustain-Off whenever an input is turned on or off. To program these parameters, send the PIS the following System Exclusive message (all values in Hexadecimal):

F0 00 00 50 1C 00 aa tt (cc) F7 (**cc** is optional) **aa, tt,** and **cc** are set as follows:

aa = 00: Don't send All-Notes-Off and Sustain-Off
aa = 01: Send out All-Notes-Off and Sustain-Off whenever turning an input ON
aa = 02: Send out All-Notes-Off and Sustain-Off whenever turning an input OFF
tt = 00: Tap OFF - footswitch open selects Program #0, footswitch closed selects Program #1
tt = 01: Tap ON - tapping the footswitch increments through Programs
cc = MIDI channel to respond to Program Change messages from InA (see channel table below for values)
- if **cc** is omitted then incoming Program Changes are ignored and PIS responds to footswitch only

▸ The PIS's LED can be programmed to flash in a variety of ways to indicate the input status. With **ab** defined as above, the LED indication **ii** corresponding to the state of **ab** is programmed as follows:

F0 00 00 50 1C 02 ab ii F7 where **ii** is set as follows:

ii = 00: LED OFF **ii** = 01: LED flashes once/second **ii** = 02: LED flashes twice/second
ii = 03: LED flashes three times/second **ii** = 04: LED constant flash **ii** = 05: LED rapid flash
ii = 06: LED ON flashing OFF briefly when data is passed through PIS
ii = 07: LED OFF flashing ON briefly when data is passed through PIS

Example: To program the PIS's LED to flash rapidly when all MIDI messages from InA and InB are being routed to the output, send it the following command: **F0 00 00 50 1C 02 22 05 F7**

HEXADECIMAL CONVERSION TABLE

Dec/Hex															
0	00	16	10	32	20	48	30	64	40	80	50	96	60	112	70
1	01	17	11	33	21	49	31	65	41	81	51	97	61	113	71
2	02	18	12	34	22	50	32	66	42	82	52	98	62	114	72
3	03	19	13	35	23	51	33	67	43	83	53	99	63	115	73
4	04	20	14	36	24	52	34	68	44	84	54	100	64	116	74
5	05	21	15	37	25	53	35	69	45	85	55	101	65	117	75
6	06	22	16	38	26	54	36	70	46	86	56	102	66	118	76
7	07	23	17	39	27	55	37	71	47	87	57	103	67	119	77
8	08	24	18	40	28	56	38	72	48	88	58	104	68	120	78
9	09	25	19	41	29	57	39	73	49	89	59	105	69	121	79
10	0A	26	1A	42	2A	58	3A	74	4A	90	5A	106	6A	122	7A
11	0B	27	1B	43	2B	59	3B	75	4B	91	5B	107	6B	123	7B
12	0C	28	1C	44	2C	60	3C	76	4C	92	5C	108	6C	124	7C
13	0D	29	1D	45	2D	61	3D	77	4D	93	5D	109	6D	125	7D
14	0E	30	1E	46	2E	62	3E	78	4E	94	5E	110	6E	126	7E
15	0F	31	1F	47	2F	63	3F	79	4F	95	5F	111	6F	127	7F

MIDI CHANNEL TABLE

cc must be set according to the following table:

Chan.	cc	Chan.	cc	Chan.	cc
1	00	7	06	13	0C
2	01	8	07	14	0D
3	02	9	08	15	0E
4	03	10	09	16	0F
5	04	11	0A	ALL	7F
6	05	12	0B		