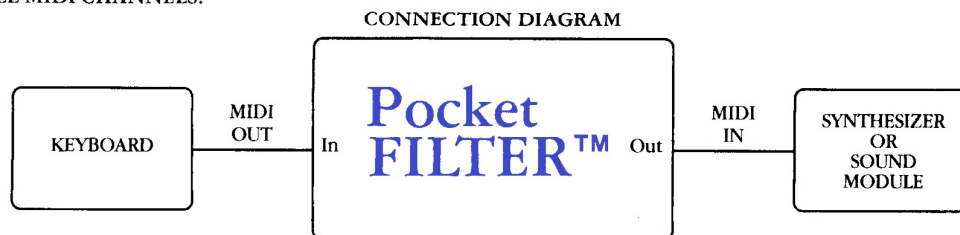# Pocket FILTER™

OPERATING INSTRUCTIONS

Pocket FILTER™ can be used to filter any type of MIDI data in a MIDI Line. It can be used with any type of MIDI equipment and requires no batteries or external power supply to operate.

1. FILTERING ON ALL MIDI CHANNELS.

CONNECTION DIAGRAM

a) Connect the MIDI OUT of a keyboard or other MIDI Device to the jack labeled "In" of the Pocket FILTER™.
b) Connect the output jack labled "Out" of Pocket FILTER™ to the MIDI IN of a synthesizer or sound module.

The red status light is normally on but will turn off when MIDI data is being sent through Pocket FILTER™. Real time messages do not cause the status light to turn off.

Data is filtered by selecting the data type with the white rocker switches numbered 1 through 8. When any of these switches are turned on, that data type is filtered on *all 16 MIDI channels*. The following table lists the data types that correspond to the switches on Pocket FILTER™.

SWITCH	NAME	MIDI Data Type	Notes
1.	Touch	After Touch	Channel and polyphonic key pressure
2.	Controller	Control Change	All controllers including Modulation
3.	Bend	Pitch Bend Change	Pitch Bend is not a control change
4.	Program	Program Change	Does not filter system exclusive sent with program change
5.	All	All channel Data	System messages are not filtered
6.	Note	Note On Event	Both note on and note off events are filtered
7.	System	System Exclusive/Common	System real time messages are not filtered
8.	Real	System Real Time	Filtering includes active sense.

2. FILTERING ON SELECTED MIDI CHANNELS
a) Make the connections as described in part 1.
b) Turn all white rocker switches ON. The status light will flash steadily indicating that channel set mode has been activated.
c) Turn off all white rocker switches.
d) Turn on white rocker switch corresponding to the type of data to be filtered.
e) Select on what channel(s) the data is to be sent using the keychart below.
f) Press any key outside the keychart range to take the unit out of channel set mode.

KEY CHART

Key	C (middle)	D	E	F	G	A	B	C	D	E	F	G	A	B	C	D	E
MIDI Channel	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	ALL
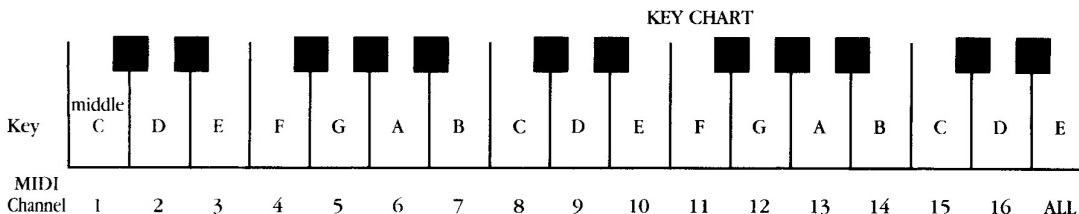
NOTE: Most Roland keyboards send an ALL NOTES OFF command whenever the last key is released; therefore, ensure that at least one key remains down while selecting more than one MIDI channel.

Filter switches can be turned off at any time. Channel settings are retained as long as MIDI connected to the "IN" jack on Pocket FILTER™ and the device to which it is connected remains ON. Disconnecting "IN" from MIDI, or plugging another Pocket Product™ into Pocket FILTER's™ "OUT" will reset the channel settings to filter on all MIDI channels.

3. CONNECTION WITH OTHER POCKET PRODUCTS
Pocket FILTER™ is compatible with all other Pocket PRODUCTS™ and can be connected with several of them in the same MIDI line. It is recommended that the number of Pocket PRODUCTS™ connected to the output of a keyboard or other MIDI device be limited to four.

4. MIDI DATA ERRORS/RESETTING
Although Anatek's Pocket PRODUCTS™ are designed to handle large volumes of MIDI data, it is sometimes possible to cause a MIDI buffer overflow. If this occurs, the status light will turn off and remain off until Pocket FILTER™ is reset. There are two ways to reset Pocket FILTER™: 1) Remove the MIDI cable from the IN jack on Pocket FILTER™, wait 5 seconds and reinsert the MIDI cable. 2) Turn off the MIDI device to which Pocket FILTER™ is connected, wait 5 seconds and turn the device back on.

SPECIFICATIONS

MIDI DATA TYPES RECEIVED: All
TRANSMITTED: All (with all filter switches off)

Active Sensing is generated Internally

DIMENSIONS: Length: 3.2″ (81mm), Width: 2.1″ (53mm), Height: 1.2″ (31mm)

WEIGHT: 2.3 oz (65 grams)

BAUD RATE: 31.25 Kbits/second

SPECIAL NOTE

Pocket FILTER™ is designed to comply with the MIDI 1.0 specfication document version 4.0, and will operate with all MIDI equipment designed to this specification.