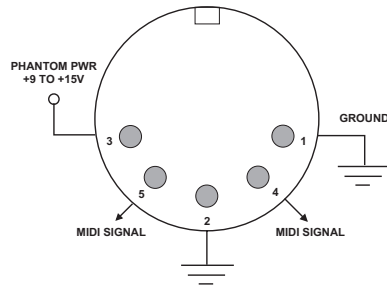


RFX MIDI PHANTOM POWER

Inspired by an article in the December 1989 issue of Electronic Musician (by Craig Anderton), we decided to emulate their MIDI phantom power model for RFX equipment. MIDI receivers supply 12 VDC on pins 1 and 3, and transmitters receive power on those same pins. Many MIDI devices can be modified to supply power down the cable, but of course RFX makes no warranty to anyone as to the applicability of this modification or any damage that might be done as a result thereof. We supply this note for those adventurous people who may want to give it a try. Connect pin 1 to circuit ground, and pin 3 to +9 - +15 VDC of the receiving unit.



LIMITED WARRANTY

This product is warranted to the original consumer purchaser to be free from defects in materials and workmanship under normal installation, use and service for a period of one (1) year from the date of purchase as shown on the purchaser's receipt.

The obligation of Rolls Corporation under this warranty shall be limited to repair or replacement (at our option), during the warranty period of any part which proves defective in material or workmanship under normal installation, use and service, provided the product is returned to Rolls Corporation, TRANSPORTATION CHARGES PRE-PAID. Products returned to us or to an authorized Service Center must be accompanied by a copy of the purchase receipt. In the absence of such purchase receipt, the warranty period shall be one (1) year from the date of manufacture.

This warranty shall be invalid if the product is damaged as a result of defacement, misuse, abuse, neglect, accident, destruction or alteration of the serial number, improper electrical voltages or currents, repair, alteration or maintenance by any person or party other than our own service facility or an authorized Service Center, or any use violative of instructions furnished by us.

This one-year warranty is in lieu of all expressed warranties, obligations or liabilities. ANY IMPLIED WARRANTIES, OBLIGATIONS, OR LIABILITIES, INCLUDING BUT NOT LIMITED TO THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, SHALL BE LIMITED IN DURATION TO THE ONE YEAR DURATION OF THIS WRITTEN LIMITED WARRANTY. Some states do not allow limitations on how long an implied warranty lasts, so the above limitation may not apply to you.

IN NO EVENT SHALL WE BE LIABLE FOR ANY SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES FOR BREACH OF THIS OR ANY OTHER WARRANTY, EXPRESSED OR IMPLIED, WHATSOEVER. Some states do not allow the exclusion or limitation of special, incidental or consequential damages so the above limitation or exclusion may not apply to you. This warranty gives you specific legal rights, and you may also have other rights which vary from state to state.

RFX
Salt Lake City, UT
8/99



MP128 MIDIBUDDY MIDI CONTROLLER



SPECIFICATIONS

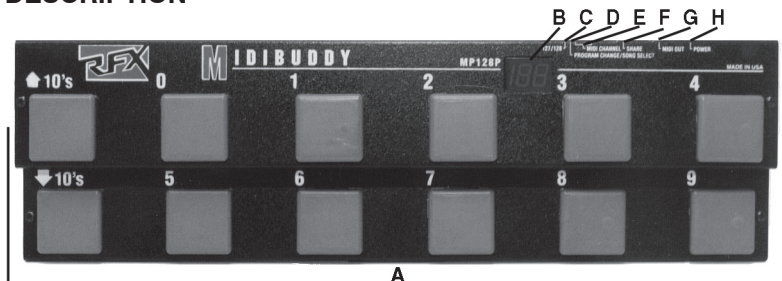
Size:	17" X 5" X 1.5" (381 x 127 x 38 mm)
Weight:	3 lbs. (1.4 kg)
Power:	7 - 15 VAC/VDC 80 mA
Phantom Power:	7 - 25 VDC 80 mA, pin 1 neg, pin 3 pos.
Display:	2 digit red, .56" high efficiency
Output:	Standard MIDI Program Change, Song Start/Stop
Output Jacks:	2 DIN jacks (MIDI OUT, MIDI SHARE)
Chassis:	Black painted steel

OWNERS MANUAL

INTRODUCTION

Thank you for purchasing the RFX MP128 MIDIBUDDY. The MP128 sends standard MIDI program changes to select patches on a MIDI keyboard, digital signal processor, or other MIDI controllable device.

DESCRIPTION



- A. Program Select, Function buttons
B. Program/Function Display Window
C: 127/128 (Dip switch #6) Switch
D: PROGRAM CHANGE/SONG SELECT (DIP switch # 5) Switch
E: MIDI CHANNEL SELECT Switches (DIP switches 4,3,2, and 1)
F: SHARE output
G: MIDI output jack
H: POWER jack

INSTALLATION

- Apply power (Rolls Model PS27, 12VDC, 150mA) to the Power jack on the rear of the MP128. The MP128 may also be "phantom-powered" which means powering the unit via unused pins of the MIDI cable. See the back page of this manual for more on MIDI phantom power.
- Connect the MIDI OUT of the MP128 using a standard MIDI cable, to the MIDI IN on the device to be controlled. The MIDIBUDDY may be used on the floor and foot switched or placed on top of a keyboard for easy hand access. The unit, with slight modification, will fit in a standard 19 inch audio rack if necessary.
- The "SHARE" jack is in parallel with the OUT jack and operates as a MIDI "Thru" for connecting several devices together. For example, two MP128s operating on different MIDI channels could use the same MIDI path.

OPERATION

The MP128 follows MIDI standard protocol, and will change programs on any MIDI controllable device. The controlled device and the MP128 must be on the same MIDI channel (see chart - next page), or the device should be on an "omni" channel.

The unit sends up to ten different program changes, in twelve different banks. Bank 0 sends program changes 1 - 9 (there is no program change 0), bank 1 sends program changes 10 - 19, bank 2 sends program changes 20 - 29, etc. The LED display on the MIDIBUDDY shows the MIDI program number (0 - 127, or 1 - 128 depending on the setting of DIP switch # 6). As the 10s Up or Down are scrolled through, the unit increments or decrements

through banks 0 through 120. The ones digit is selected by switches 0 - 9. MIDI data is sent only when a 1 - 9 button is selected except as described below. The display will show a "-" in the right hand digit when no MIDI information is sent, or when a 10's UP or DOWN button is pressed.

For example; to send program 47, press the 10s UP or 10s DOWN until the display reads "4-" then press the 7 button. When the 7 button is pressed, program 47 is sent out and the number is displayed by the LED readout.

MIDI Start and Stop Commands

When program "00" is selected, the MP128 display shows an "ST" (which looks more like an Sr), and sends a MIDI start command. This may be used to start a MIDI sequencer. When program "129" is selected, an "SP" is displayed and a MIDI Stop command is sent.

Setting the DIP Switches

NOTE: DISCONNECT THE POWER CABLE TO MAKE DIP SWITCH CHANGES. SETTINGS TAKE EFFECT UPON POWER-UP.

The MIDI Channel is set with DIP switches 1 - 4 on the rear of the MP128. If all switches are in the off position, MIDI channel 1 is selected, if all are on, MIDI channel 16 is selected. Use the following chart to select the MIDI Channel.

CH#	ON	OFF	CH#	ON	OFF
1		1,2,3,4	9	4	1,2,3
2	1	2,3,4	10	1,4	2,3
3	2	1,3,4	11	2,4	1,3
4	1,2	3,4	12	1,2,4	3
5	3	1,2,4	13	3,4	1,2
6	1,3	2,4	14	1,3,4	2
7	2,3	1,4	15	2,3,4	1
8	1,2,3	4	16	1,2,3,4	

- Switch #5 selects whether the MP128 transmits Program Change information only, or transmits Program Change and Song Pointer.
- Since some MIDI devices display their programs as 0 - 127, and others display 1 - 128, the MIDIBUDDY's DIP switch #6 will select either of these two. If switch #6 is in the off (up) position, the MP128 will display program numbers 0 - 127. If switch #6 is on (down), the MP128 will display program numbers 1 - 128 (which is the way the MP128 comes from the factory).