LIMEX

MIDI System
MPR4

User Manual
for
MICRO Professional 4
and
MIDI Professional 4

Vienna / Austria 2011

WARRANTY STATEMENT

Installation Date ....
Delivery ....
Date of purchase…………………………………..

Dealer stamp

GENEREAL INFORMATION ABOUT MIDI AND MICRO

DELIVERY

The electronics built in your instrument might include the following:
Only **microphone system 4** or only **MIDI professional 4** or **both.**
Regardless to what electronic equipment is installed,the following is included:

• **1 pc. LIMEX carrying case**
• **1 pc. Manual**
• **1 pc. Power adapter 9VDC**
• **1 pc. Instrument cable** (= cable with two 6 pin connectors)
• **1 pc. Adapter cable** (= cable with 6 pin connector, 3 and 5 pin plugs
                                    MIDI connector)
Your system may be extended with the following LIMEX items:
• Optional: Touch Display
• Optional: MIDI Controller MC 11
• Optional: MICRO Controller MC 4
• Optional: Vocal microphon
• Optional: Sound module
• Optional: Wireless system
• Optional: Battery box

SAFETY
• Read the user manual before using the device
• Do not spill liquids into the instrument or equipment
• Turn Off all connected devices before changing or making any connections to
  the unit
• Do not place anything on top of the device
• Do not handle the device with wet hands

Do not use or store the device in:

• Damp or wet locations
• Locations exposed to extreme temperatures (i.e. in a vehicule in winter or
  summer)
• Locations where the device is exposed to vibrations, shocks or jolts

PROPER HANDLING

• Use original cables and power supplies.
• Unplug the cable only by pulling the plug, not the cord.
• Do not expose the power adapter to any mechanical stress
• Do not use non-standard cable and no dubious Power adapter .

Installed products :	Type description of the component:
☐ **MIDI Professional 4**	**MPR4**
☐ **Touch Display**	**DP**
☐ **MIDI Controller MC11**	**MC11**
☐ **Soundboard**	**SB**
☐ **MICRO Professional**	**MIK4**
☐ **MICRO Controller MC 4**	**MC4**
☐ **Vocal Micro**	**VM**

Power supply: 9V DC / 1300mA
Operating temperature range: 0 bis 40 Grad Celsius
Humidity: max. 80% nicht kondensierend

Technical data for the microphone system
Number of capsules: 8 to 10 pc. on the treble side
                              3 pc on the bass side

Frequency response: 70 Hz bis 18 kHz on the treble side
                            20 Hz bis 20 kHz on the bass side
Output Level: **LINE Level** with – 6dB

$C\hspace{-2pt}\in$**- Regulations should be met for proper installation.**
The installation must be performed by trained personnel from LIMEX!

LIMEX hereby reserves the right to serve any changes to a product improvement without prior
notice to carry out.
Our general terms and conditions. Jurisdiction is Vienna.

$C\hspace{-2pt}\in$**- Certificate of conformity available at:www.LIMEXMIDI.eu**

SUPPORT available in:.

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Tel: +43 (0)1 484 56 57
Email:midi@LIMEX.co.at
Internet: www.LIMEXMIDI.eu

Function		Transmitted	Reco-gnized	Remarks
Basic	Default	1 - 16	x	
Channel	Change	1 - 16	x	
Default		3	x	
Mode	Messages	x	x	
Altered		*********	x	
Note		24 - 96	x	
Number	True Voice	*********	x	
Velocity	Note On	9n,V=1-127	x	
	Note Off	x	x	
After	Keys	x	x	
Touch	Ch's	x	x	
Pitch bend		x	x	
Control Change	7,11,91,93	O	x	
Program		0 - 127	x	
Change	Actual No.	*********	x	
System Exclusive		x	x	
System	:Song pos.	x	x	
Common	:Song sel.	x	x	
:Tune		x	x	
System	:Clock	x	x	
Real time	:Commands	x	x	
Aux	:Local ON/OFF	x	x	
Message	:All notes off	O	x	
:Active Sense		x	x	
:Reset		x	x	
NOTES:				
Mode 1:OMNI ON,POLY		Mode 2:OMNI ON, MONO		O: Yes
Mode 3:OMNI OFF, POLY		Mode 4:OMNI OFF, MONO		x: No

CUSTOMER SERVICE - TROUBLESHOOTING

All components and circuit boards are subject to quality control in manufacturing.
If after careful installation in your instrument, an error occur please first read the chapter "**Troubleshooting**." Was able to solve the problem ,but then you immediately contact your dealer. Refrain from improper repair attempts, as this can cause permanent damage to the electronics. In addition, the warranty will be lost!.

Leave the repairs to our professional service.!!

ASSEMBLY AND SET UP

FOR LIMEX MICRO - SYSTEM 4 and/or LIMEX MIDI - SYSTEM MPR4

Have you installed any of the above systems the following applies:

Turn up the volume of your sound system back.
Insert 90 degree angled 6-pin plug of the cable to the bass side of your instrument.
Connect the straight 6 pin connector with your adapter cable.
Plug the 5-pin plug of the adapter cable into the **MIDI IN** jack into your sound module.NOTE: with built-in Limex sound board –no need to use the plug
Connect the „**gray**" and the „**black**" jack of the adapter to the **LINE –** inputs of your mixer, amplifier or an active speaker.
The "**purple**" connector is only for special-versions of the micro-system needs
Connect the AC adapter into the appropriate connector of the adapter cable.
Switch ON your LIMEX system - plug the AC adapter into a Line Outlet.
Switch ON your AMP or PA system
Turn down the volume on the amplifier to the desired value.

You only need one cable for **MIDI** and **MICRO**.

LIMEX SOUND BOARD

If you have the LIMEX sound board installed in your instrument, the **gray** and **black** cable plugs are carrying signals from MIDI and microphones in stereo.

MICRO Professional 4

The MICRO Professional 4 is a high quality of LIMEX microphone system that was specifically developed for harmonicas and accordions. During development of the MICRO PROFESSIONAL, special consideration was given to the reproduction of the treble side of the instrument, in order for the microphone system to respond in a very even and homogenous manner throughout the entire tone range of the instrument .It is therefore ideal for use on the stage .The system is designed to reproduce the treble side in stereo and the bass side in mono.You also have the option to use attachable vocal microphone designed by LIMEX either headset or gooseneck microphone.

Generally, located on the **gray** and **black** jack of the adapter cable, the audio signal from the treble mics in **stereo**, the bass and the vocal mics are **mono** micro and "**centered** " to mix. The "**purple**" connector is used only in special versions. Check with your dealer.

The MICRO Professional 4 is available in two different versions:

Variant „STANDARD"   or   Variant „PLUS"

The variant „**Standard"** has no Effects and does not have any possibilities to control volumes of the instrument mics . Volume changes are possible only at the amplifier system. To introduce higher standards and radio operation we recommend the variant "**PLUS**", it includes effects and the Controller MC4.

MICRO Controller MC 4

The **micro controller MC 4** offers the advantage that you can control all microphone functions easily from the instrument. The volume, sound effects or changes, you can perform all settings directly on the micro controller MC4 - no need you go to the mixer.

This is particularly very helpful and comfortable when the Limex wireless system is used .

Controlls of the MICRO Controller MC 4

Button „**EQ**" = button for equalizer mode
Button „**FX**" = button for vocal micro effect On / Off
Button „**A**" = memory option 1 of a complete microphone setting
Button „**B**" = memory option 2 a complete microphone setting
Potencjometer „**VOL**UME" = adjusting volume
Potencjometer „**REV**ERB" = adjusting the revers settings

Potencjometer „**ECHO**" = adjusting the echo effect settings

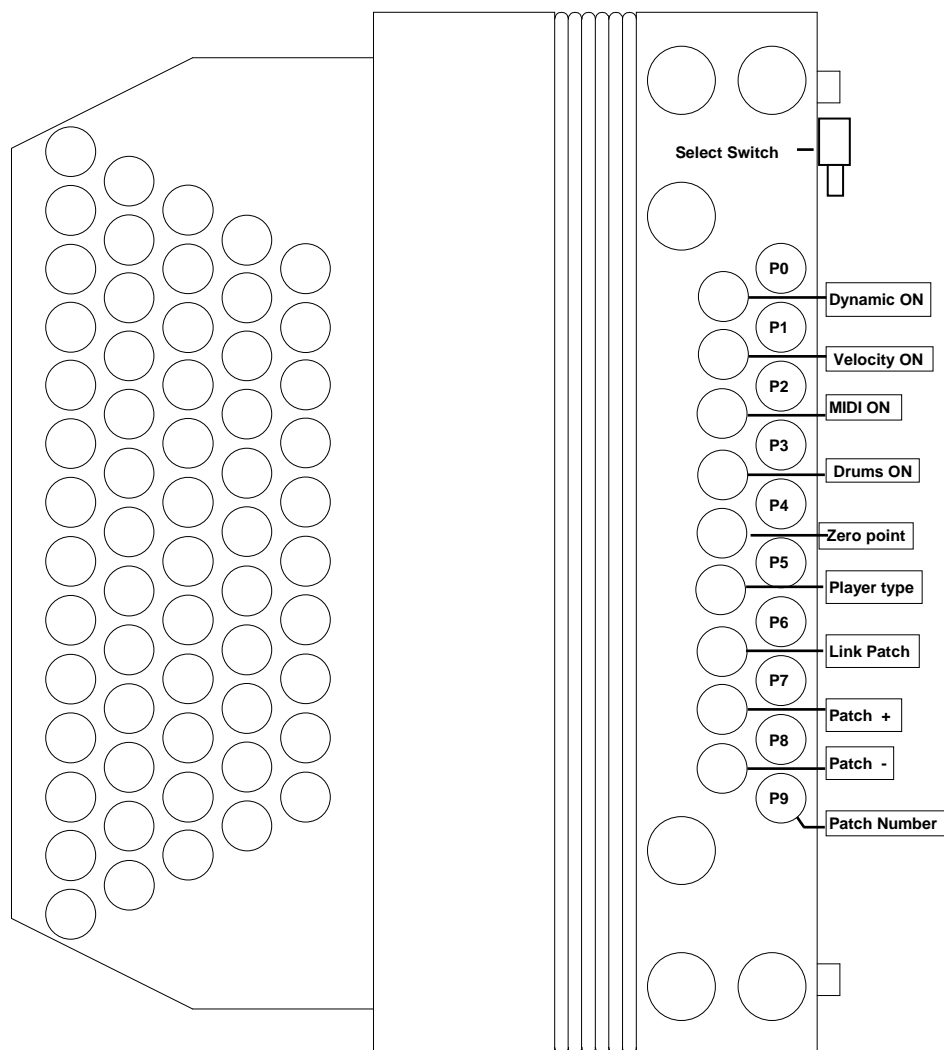A two-digit seven-segment display for **volume**, **reverb** and **echo**
Three single-color LEDs to display the range **VOCAL**, **treble**, **bass**
Three double-Coloured LEDs for various functions

TROUBLESHOOTING

Problem	Possible Cause
No Micro and MIDI MIDI-Sound	• Voume turned OFF!! • AC adapter not connected properly or faulty • Control or adapter cable is not connected properly or faulty
No MIDI Sounds, but the microphones are functioning	• SBVOL volume „0" • Key alignment problem • Technical problem – please contact your dealer immediately
No MIDI sound when keys are pressed on the treble side	• Function „Treble OFF" activated • Key aligment problem • Technical problem – please contact your dealer immediately
No MIDI sound when the bass/chords buttons are pressed on the bass side	• Function „Bass OFF" activated • Key aligment problem • Technical problem – please contact your dealer immediately
MIDI keyboard to play only in part - Stuck notes when the keys are up	• Perform keys alignment!! • Technical problem – please contact your dealer immediately
Cracking noise with the bellows movement	• Technical problem – please contact your dealer immediately
Different dynamic behavior between acoustic sound and MIDI sound	• Selected wrong type of player (internal function „type of player"

Select Switch

P0 — Dynamic ON
P1 — Velocity ON
P2 — MIDI ON
P3 — Drums ON
P4 — Zero point
P5 — Player type
P6 — Link Patch
P7 — Patch +
P8 — Patch -
P9 — Patch Number

With 3 - or 4 row instruments, functions can be programmed in only with available keys.!

Microphone range

All control steps are controlled digitally, so there is no unwanted awkward facts in the speaker "scratching sound " if a Potentiometer shows signs of wear. All rotary controls regulates only each microphone specific area!. There are a maximum of three microphone areas::

a.) **Vocalmicro range** = **Blue LED**
b.) **Treble micro range** = **Red LED**
c.) **Bass micro range** = **Green LED**

Micro range selection

In order to perform microphone settings in the desired range - volume, reverb, echo and sound, you must first select the appropriate micro-level. The selected area is displayed on the **LED** (blue, red or green). The range selection is done by briefly pressing the **VOL** rotary knob

Volume control

After you have selected the appropriate area, you can adjust the volume of the selected microphone by rotating the first rotary knob **VOL**. The control range of "0" to "15" appears on the display

Reverbs setting

To adjust intensity of the selected microphone Reverbs (Hall) area, you can change it by rotating the second knob "REV. " The control range from "0" to "15" appears on the display.

Note In the micro area „**BASS**" this control has no function.

Echo intensity settings

The echo intensity of the selected microphone range you can change by rotating the third rotary knob, "**ECHO**". The control range from "0" to "15" appears on the display.

Note: In the micro area „**BASS**" this control has no function .

SELECTION REVERB (HALL) TYPE

There are eight different reverb effects.
You can change the reverb type by pressing for two seconds the second dial
"REV" .On the display - bottom right, the red dot lights up. At the same time
you will see which 8 Hall effect type sets are available (on the display,
you see a number of "1" to "8") . By simply rotating the second dial "REV" ,-
you'll change the reverb effect to your liking. By pressing the same dial
you will exit the selection.
Following Hall - effects are available:
Hall 1, Hall 2, ROOM 1, ROOM 2, ROOM 3, PLATE 1, PLATE 2, PLATE 3

SELECTION ECHO FREQUENCY

There are a total of 15 different response speeds available (from slow to fast) .
To change the frequency response by pressing for about two seconds the third
dial "ECHO"
Press and hold it until the display – (bottom center display lights up the red dot).
At the same time you will see what response frequency value (the display, you
see a number of "1 " to "15") is currently set. By simply rotating the third dial
control "**ECHO** " You'll change the response rate to your liking.
By pressing the same dial to exit the selection.

„EQ" Button = Equalizer mode

With the "EQ" - function can improve the sound of microphone range
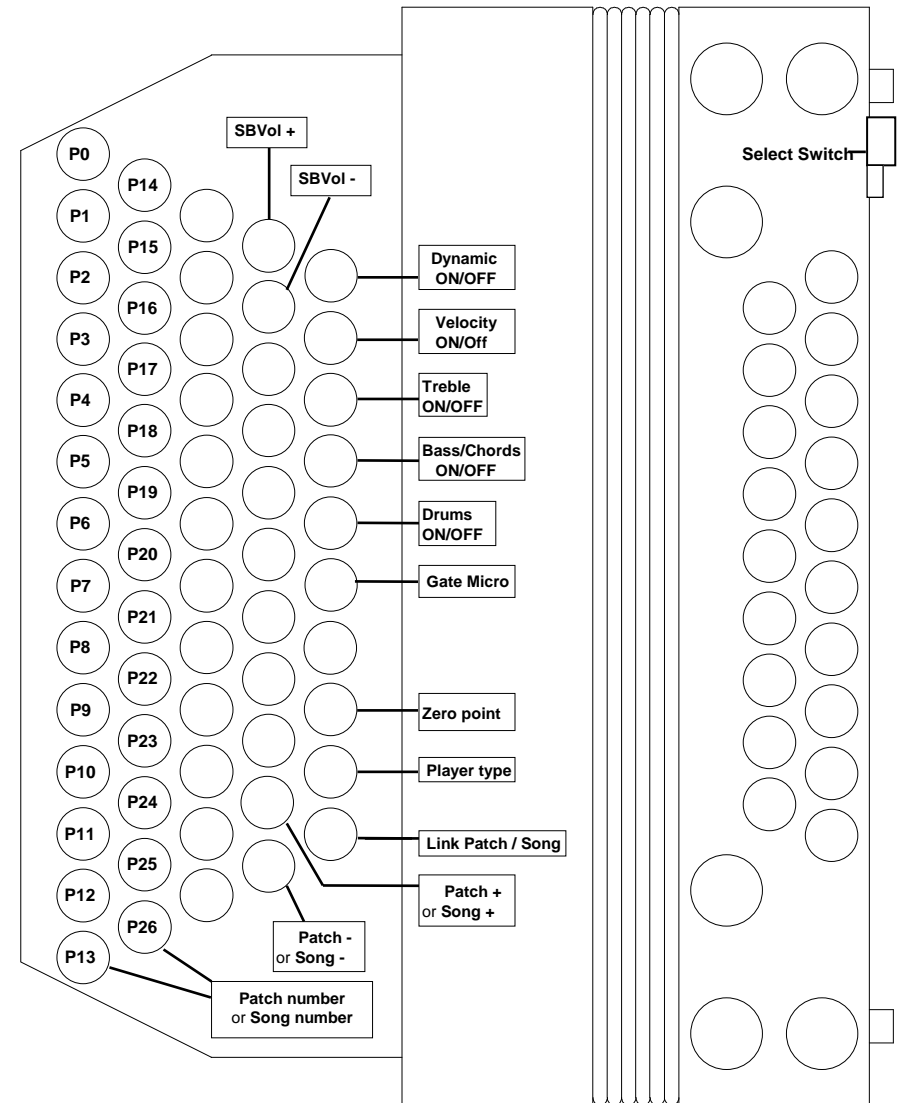significantly. Experiment with it, it's worth it.!
Press the button for about two seconds until the green light is lit "EQ" and you
are in the equalizer mode. You can set independently for each microphone area
the low (bass), slow lift middle (mid) and high pitch (treble) according to your
ideas . In the display you see values of "**-7**" to "**+7**". The value "**0**" means
"**LINEAR**", i.e. there is no boost or slowdown.
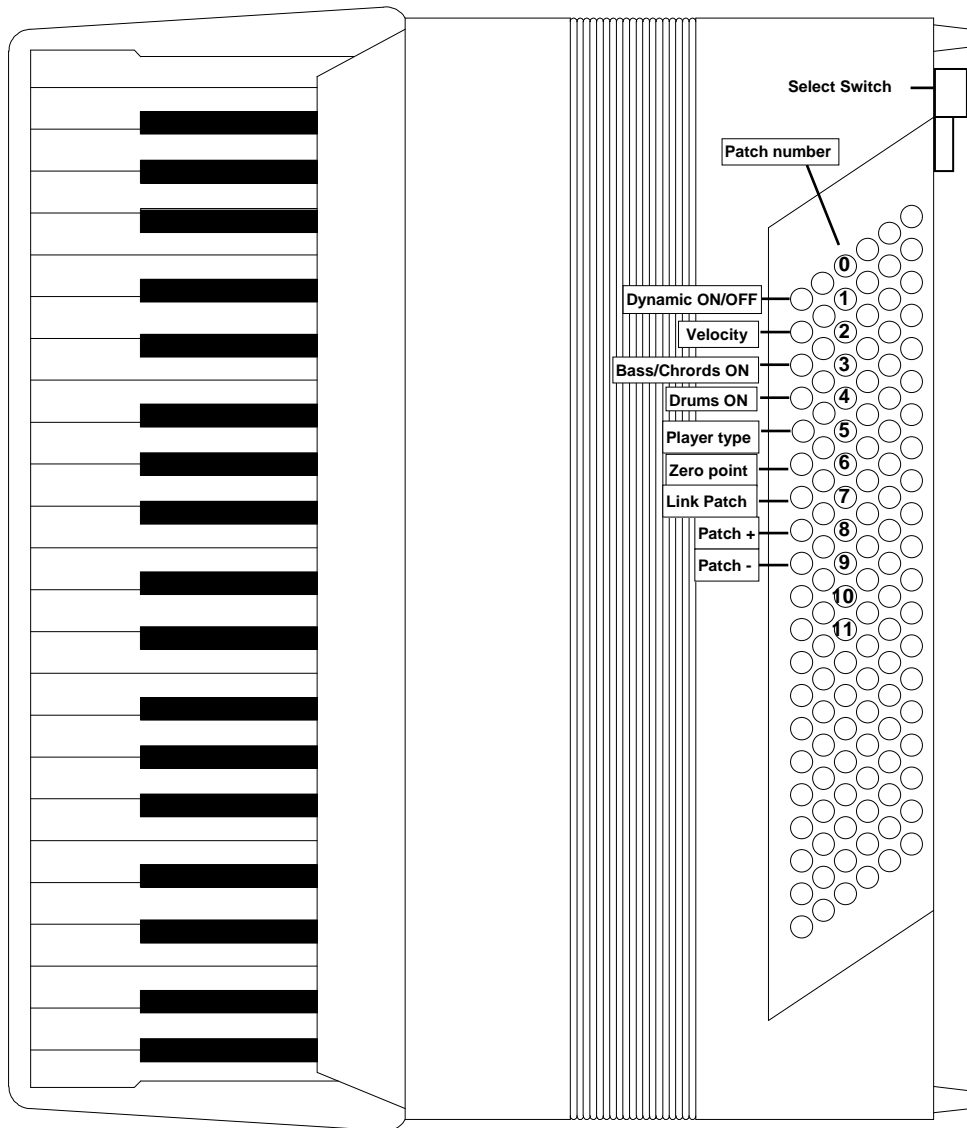By pressing the button "EQ" , - leave the EQ mode

„FX" Button for Vocal micro-Effect (Reverb and Echo)

By pressing the button"FX" turn the overall effect of the vocal micro OFF
(if OFF, the LED lights red). The effect of the treble micro volume remains
Press the button "FX" for two seconds and two LEDs lits red; - you will
activate the "AUTO FX" mode. If you have installed only
MICRO Professional 4 turn on while playing it depends on the treble and

Function buttons for Diatonic Harmonica on FULL MIDI

Select Switch

Patch number

0
1
2
3
4
5
6
7
8
9
10
11

Dynamic ON/OFF
Velocity
Bass/Chrords ON
Drums ON
Player type
Zero point
Link Patch
Patch +
Patch -

the set threshold value to the FX effect automatically is on or off. For existing MIDI Professional 4 system, the effect turns on automatically by pressing a play button. If no key is pressed, the effect turns off automatically after about one second. By briefly pressing the "FX" will take you back to the manual mode.

FX – Threshold Settings

To the pure MICRO Professional 4 system with the MIDI Users of popular "**AUTO FX**" Mode must be use so-called FX-defined threshold.
These threshold determines at which treble of the volume level effects for the vocal micro-One respectively is switched off.
Press the buttons "**FX**" and "**B**" at the same time for about two seconds (red LED starts flashing).
In the display you will see a value between "1 " and "15". Try to find a value at which the effects of the vocal mics depending on the treble volume level according to your previous position in - respectively shuts down. By briefly pressing one of the two buttons to exit from this mode. The bass side has no effect on this setting.

GAIN - Mode

In order to optimally adjust the microphone volume of the instrument, it is possible to adjust the "gain" (Preamplifier). **In order to avoid mismatches, we suggest you make such changes only if you have such knowledge**. The gain can be set separately for each microphone ranges. Select the appropriate micro-range and turn the volume to the maximum value (15).
Then press the button "**EQ**" and "**A** " at the same time and hold for about two seconds (red LED stays on) - you are in the GAIN mode.
Volume of the microphone will increase slowly with the highest possible level gain value and when the red LED = is clipping flashes , then turn back one step. By briefly pressing any button again to exit the gain mode.

All MICROPHONES „OFF"

Press the button "**EQ**" and "**FX** " you will turn off all the microphones.
Briefly pressing the two buttons turn the microphone again.

Save a settings to „A" or „B" buttons

With the buttons "**A**" (green LED) and "**B**" (red LED), you can always save changes or to retrieve it . Briefly pressing the "**A**" or "**B**"
it will retrieve stored settings and holding it longer
(until the corresponding LED flashes) will save the changes.

TIPS for USERS:

Below are described two frequently requested possibilities:

PANIC BUTTON

If there is any feedback, problems the panic button is often useful. As delivered, the memory "**B**" is same as memory "**A** ", however the volume settings in the memory location "B" is slightly reduced. Now, in case a feedback problem arises, you can simply activate the option memory "**B** ". Please remember that there are usually the first bass mics may cause a feedback problem. If necessary, the volume level of the bass microphone turns a little down.

SOLO BUTTON

Playing in a group and want to play the accordion solo, i.e. the treble micro to be louder during the solo performance by appropriate value? The micro controller MC 4 allows it without turning controls on the amplifier.
Just use the memory button "**B**" with a higher volume than treble stored on memory button "**A**" and you will have the desired function

MIDI Professional 4 (MPR4)

The following description refers to the basic version of MIDI Professional 4 that is without a **touch screen** and without **MIDI Controller MC11**.!

If you want to use MPR 4 capabilities such as MP3 player, MIDI files player or style player, - you can always upgrade to a full MIDI (MPR4).
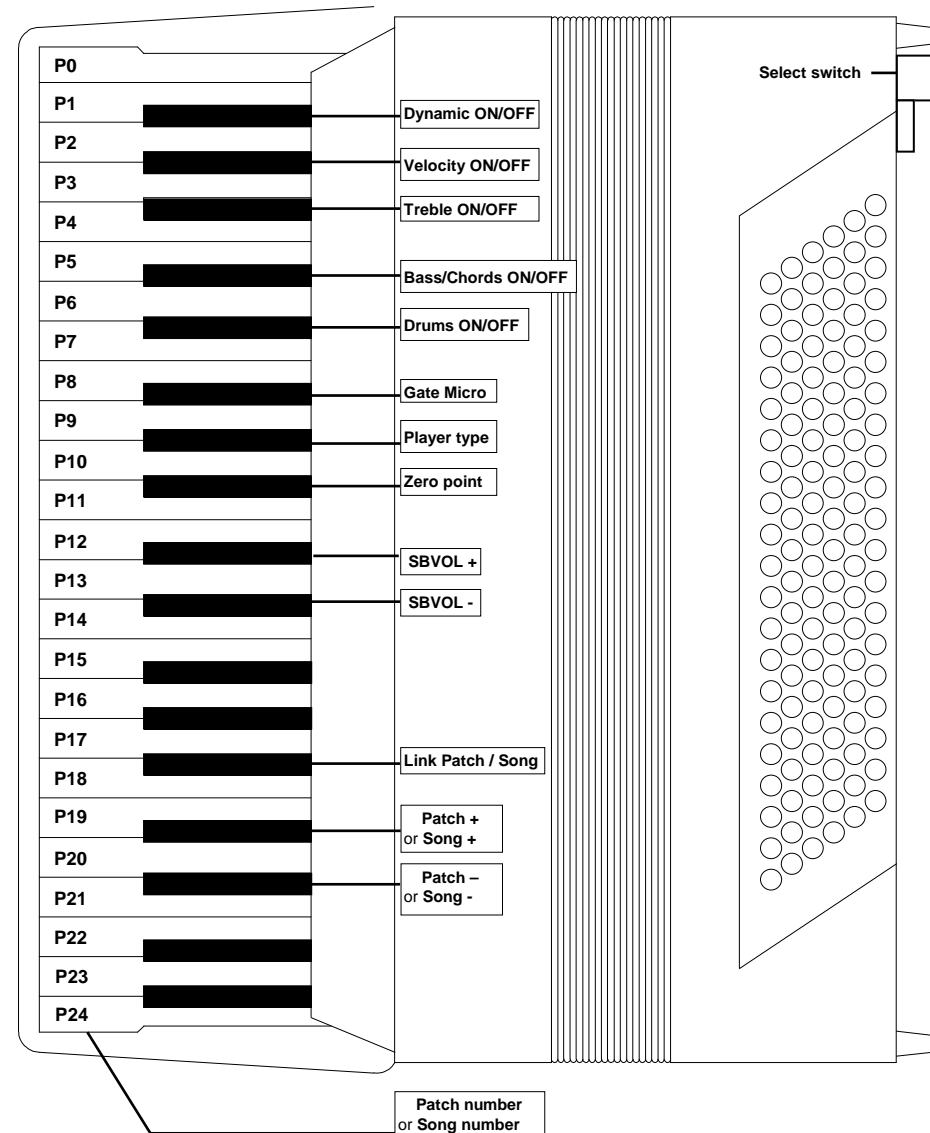
What is MIDI

This section is intended to acquaint the novice to whatMIDI is and what options are offere through MIDI.

MIDI is short for :   **M** usical
                              I nstrument
                            D igital
                              I nterface

This means **"digital interface for electronic musical instruments".**

Diagram labels:

- Select switch
- P0
- P1 — Dynamic ON/OFF
- P2
- P3 — Velocity ON/OFF
- P4 — Treble ON/OFF
- P5 — Bass/Chords ON/OFF
- P6
- P7 — Drums ON/OFF
- P8 — Gate Micro
- P9 — Player type
- P10 — Zero point
- P11
- P12 — SBVOL +
- P13 — SBVOL -
- P14
- P15
- P16
- P17 — Link Patch / Song
- P18
- P19 — Patch + or **Song +**
- P20
- P21 — Patch – or **Song -**
- P22
- P23
- P24 — Patch number or **Song number**

With your LIMEX MPR 4 system you will receive 50 professionally designed patches (TMI) that can cover a wide spectrum of sounds. Each patch contains four "scenes" (sets) however; it allows you to toggle between scenes only by using the MIDI **controller MC11**. Each scene can contain up to 8 treble, 3 chords, 3 bass sounds and a manual rhythm (drums) set using bass and chord buttons. Due to the different instrument layout of the "scenes", switching the sound while playing is **possible only** with **the controller MC 11**!

Without MC 11, you can use the function keys **"+ Patch"** and "**Patch -** scroll through the 50 patches and can choose your favorite patches using the" **LINK patch** "function to save it on the white keys. Without MC 11 there are available only the settings from **Scene 1**!

PATCH STRUCTURE (Example)

Scene 1

Treble	Tromp	Clarin	Hackb	Streih	Orgel	Mundh	Piano	Harfe
Bass						E-Bas	A-Bas	Barito
Chords						R-Git	NyGit	String
Drums							On	Off

Scene 2

Treble	Tromp	Klarin	Hackb	Streih	Orgel	Mundh	Piano	Harfe
Bass						E-Bas	A-Bas	Barito
Chords						R-Git	NyGit	String
Drums							On	Off

Scene 3

Treble	Tromp	Klarin	Hackb	Streih	Orgel	Mundh	Piano	Harfe
Bass						E-Bas	A-Bas	Barito
Chords						R-Git	NyGit	String
Drums							On	Off

Scene 4

Treble	Tromp	Klarin	Hackb	Streich	Orgel	Mundh	Piano	Harfe
Bass						E-Bas	A-Bas	Barito
Chords						R-Git	NyGit	String
Drums							On	Off

All selected instruments are playing in with the layout of the active SCENE.!
Without the MC11 it just play the instruments set in the first SCENE!

MIDI is a standard protocol used to control electronic sounds through musical instruments.It empowers the user to sound like any number of different instruments using only a single instrument equipped with a MIDI controller and a MIDI compatible tone generator such as a keyboard.
The signals that are sent through the MIDI cable are digital control messages, not audio.
These digital signals can only be generated by a computer such as the MICRO computer installed with every LIMEX MIDI MPR4.
MIDI is an international standart that enables electronic musical instruments from different manufacturers to comminicate and work together.
Here is a simplified explanation of how it works:
If you press a „C:" note for example on the treble side of your Limex MIDI MPR4 accordion, a key sensor will trogger the electronic equipment to send a message to a MIDI sound module.In response the MIDI sound module will produce a corresponding „C" note with a sound assigned from the sound module.This happens in a few milliseconds, so the delay is undetectable to the player.

What is possible with MIDI?

- Play tones ON /OFF
- Change sounds
- Play with Touch dynamic
- Change sounds with bellows dynamic
- Transpose
- Simultaneously trigger up to 32 instruments

The list would have greatly expanded; ultimately, there is a wealth of MIDI parameters to an electronic sound generator-class instrument sounds "magic".

More Harmonica / Accordion through high-tech!

Your LIMEX MIDI system MPR 4 consists of the latest electronics. Nothing under the keys to add extra key pressure, all is through the electronic sensors.

Advatages for the user are as follows:

- The aestetics of the instrument is fully mantained
- No alteration of the instrument`s natural tone

- No additional pressure when key and buttons are pressed
- Exat triggering even with shallow key travel
- Precise Pull/Push switching through electronic pressure sensing
- Touchless switching unaffected by dirt,dust and humidity
- No double triggering
- Long live components ,as wear free
- All components manufactured using Surface Technology,therefore minimal space is required for installation and almost no weight is added to the instrument
- Highest reliability.
- System is programmable by PC and is very flexible
- 50 Custom Patches (sound registrations) are included

EASY TO USE

To help you with ease operation to use it without display and MIDI Controller MC11 , the following tools are available:
- **SELECT SWITCH**
- **FUNCTION KEYS / BUTTONS**
- **PATCHES**

Each key of the instrument, in addition to playing a sound ,- perform a second function

SELECT SWITCH

The select switch is located on the bass side and has a lever for actuation. The lever can be pushed either forward or backward . You need to use the select switch for all further steps.!
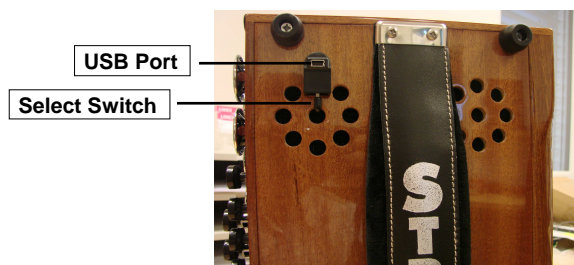
The USB port for LIMEX programming software is an integrated part of the select switch.

SPECIAL FUNCTION KEY CALIBRATION – KEY ADJUST

For this operation you need only the **Select Switch!**

The key determines the correct calibration ON or OFF the MIDI sounds, with a defined key travel. The MIDI sound should be at about halfway down to switch on / off new check is only necessary if the individual instrument keys are not playing a MIDI sound or are producing a continuous tone.
This also might happen with a new instrument where key travel changed.

Procedure:

a.) Within 3 seconds **push the Select switch two times forward and two times backward** – you should be in the **key calibration mode**. As a guide, you will hear from the speaker a gentle organ tone. If you have a display, you can select the appropriate view information.
b.) Now **slowly** and **precisely** press all keys / buttons.
c.) When you are done, briefly press the select switch – and you are out of key calibration mode. The sound of the organ stops.

Hint: During key calibration procedure, DO NOT touch any other keys or buttons until you are done!!!!

The key calibration has been completed by your dealer!
A new key calibration check is only necessary if the individual instrument key are not playing a MIDI sound or are producing a continuous tone.

All of the treble keys, the 12 major chord buttons and all 12 bass buttons need to be pressed pricely!!

LIMEX PROGRAMMING SOFTWARE For   Windows

The MPR LIMEX 4 system can be programmed via a special LIMEX diverse programming software. The programming software is available in conjunction with an appropriate user training. Please consult your dealer.

System Requirements: Windows compatible PC with a standard.
Suitable for the operating systems Windows XP, VISTA and Windows 7.

Procedure:

a.) Press select switch and hold
b.) Press **Function key** „**Zero point Adjustment**"
c.) Release the select switch

Now observe the readings on the display while playing (pushing/pulling the bellows)
If the values are constantly in a range from "**0**" to "**64**" – the type of player is **"SOFT"**
If the values are constantly in a range "**110**" to "**127**"- the type of player is **"HARD"**

GATE for Micro ON / OFF

For **MPR4 system with LIMEX MICRO Professional 4**, there is available function, noise gate that was developed specifically for the full-scale noise reduction for chromatic and diatonic instruments.
The MICRO Professional 4 has a "**noise gate**" feature, which is controlled via MIDI = MIDI-controlled gate. Thus, the microphones turned on only then - regardless of treble and Bass side - if you start to play on the keyboard.
This will allow you to operate the microphones at a very high level (close to feedback), which is particularly interesting for rock music.
In addition the "**Noise Gate**" will subdue unwanted interference and feed back that could occur during brakes

NOTE: These feature is available only in combination with
full MIDI MPR4.!!

BELLOWS DYNAMIC ON/OFF

The bellows dynamic playing has been programmed in most patches for a particular instrument – i.e. the volume in these instruments will change depending on the bellows pressure. Switching OFF the bellows dynamic, this feature would be disabled.

VELOCITY ON/Off

In all patches, certain instruments have been programed for a Keystroke Dynamic play (Velocity) – i.e.in these instruments, the volume changes dependson the keystroke. Switch OFF the velocity the volume change for those instruments will deactivate.

Internal functions are controlled by function keys and concern exclusively operartions within the LIMEX MIDI MPR4 ,rather than sending information to a sound module
The activation of internal and external functions requires the use of the „Select Switch" which is found on the bass side.
First press and hold the select switch then press the function key or button that corresponds to the desired function to activate the function.

- **Patch „+"**   Patches „ scroll up"
- **Patch „-"**   Patches „scroll down"
- **LINK Patch / Song**   Save patches or songs to the white key
- **MIDI Treble ON/OFF**   Treble MIDI switch ON or OFF
- **MIDI Bass ON/OFF**   Bass side MIDI switch ON or OFF
- **Drums on bass side**   Drums switch ON or OFF
- **SB Vol „+"**   LIMEX Soundboard Master volume „+"
- **SB Vol „-"**   LIMEX Soundboard Master volume „-"
- **Dynamic Bellows ON/OFF** Switch dynamic bellows ON or OFF
- **Velocity** ON/OFF   Switch key velocity ON or OFF
- **Player type**   Change player type
- **Zero pint bellows pressure** Check the bellows pressure sensor
- **Noise GATE ON/OFF**   Switch Noise Gate ON or OFF
- **Patches / Songs retrieve**   Retrieve a cmplete patches or songs

PATCH + / PATCH or SONG + / SONG -

The MPR4 basic version without the display you can "Scroll" with these two keys in the 50 patches, or if you have a display of the songs patch list helps because of the assignment instrument to find the appropriate setting.!.!!

LINK PATCH / SONG

Listen to the functions "Patch + / + Song" or "Patch - / Song -" through the patches or, for using existing display through the songs.
If you find a patch or a song (link) you can save it on a playing key, then you can do the following:

Press the Select switch and hold it, then briefly press the "LINK PATCH" and then briefly press the corresponding key on the instrument you want to store your patch. Then release the select switch. To retrieve the patch , press select

switch and hold , then briefly touch the appropriate instrument key or button.
Then release the select switch.

MIDI Treble OFF

With this function, turn off all the treble MIDI instruments . We use this feature
when like to play just with the natural sound of the instrument

MIDI BASS / CHORDS OFF

With this function, turn off all the bass side MIDI instruments

Drums on the bass side OFF

With this function, turn off all drums   MIDI sounds.

SB Vol + / SB Vol - (**S**ound **B**oard **Vol**ume)

This feature is only usable for LIMEX sound products. To be able to
control volume of the MIDI-generated sound directly from the instrument

ZERO POINTADJUSTMENTS (Dynamic calibration)

The dynamic module requires a zero adjustment to operate at equal volume
levels between pull and push of the bellows.The same adjustment is important
for diatonic accordion to quarantee proper switching of tones between pull and
push of the bellows.

This procedure takes three seconds

Procedure:

- Close the **bellows and rest instrument on the bass side** .
- Disconnect the power supply.
- Press the **select switch** with your left hand and hold it
- Use your right hand to reconnect the power supply and wait five
  Seconds

- Use your right hand to press the function key „Zero Point" and hold
  the key for three seconds.It is absolutely necessary that the
  instrument is not moved during this procedure to guarantee
  that there is no pressure in the bellows.
- Release the **select switch**

The zero adjustment was already performed by your Limex dealer,
 therefore your instrument should be adjusted properly. This procedure
 has been explained in the rare case that the zero point adjustment is
lost through outside influence.Following the above procedure makes
it easy for you to readjust the instrument.

Hints : A zero point adjustment switched already from MPR4 and with
          savety reasons (unintentional adjustment) it is not possible.!!

After activating the zero point adjustement the touch display will read
bellows pressure values from 0 – 127 following a „**Z**" for pull and
„**D**" for push.

Player type (Soft / Medium / Hard)

This feature will allow the adjustement of the bellows pressure to your individual
playing style.Some players play loud all the time and others play rather soft with
little bellows activity.In addition it is possible to adjust the key velocity aswell.
The instrument is set at „medium"levels by your Limex dealer.

SETTING Type of Player

On diatonic accordions it is important to select the right"player type" to
guarantee problem free switching between pull and push of the bellows.
If the accordion reacts to sensible,switch to „TYP HARD".If theresponce
is sluggish, switch to „TYP SOFT".For the regular accordion you need to activate
the function „Dynamic" to find out which „player type" is ideal
for you.If the correct setting is chosen, the dynamic response of the
secong module should respond like the dynamics of the instrument.
You can find the right player type by acrivating the function
„Zero Point ADJ" and keep watching the display.