

TOTTERMidi



Series TM-4

MIDI system for accordion

TM-4-LUX, TM-4-S, TM-4-N, TM-4-BK, TM-4-B

Characteristics

- The unique system with patented function TOTTER MIDI QUINTET[®] **NEW!**
- The unique system with patented function TOTTER MIDI GUITARIST[®]
- Top dynamics adjustable for every track separately
- Unique function DYNAMIC OVERPLAY[®] of instruments
- Large choice of different adjustable dynamics
- Exceptional responsiveness of system
- Full control of all parameters from accordion
- You can change parameters during playing
- You do not need programmer or PC for changing settings
- No maintenance necessary

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TOTTER MIDI GUITARIST[®] enables you that is always played the correct chord with bass. It sounds like original guitar also with playing bass figure. You can use any sound module, with or without chord samples.

Installation

- All TOTTER MIDI interfaces can be built into each accordion, apart from kind, type and age of them.
- Installation time after previous agreement can last only 2 to 3 days.
- Acoustics remains unchanged.
- Outside appearance of accordion at models without display remains unchanged.
- Hardness and flexibility of keys remain unchanged.
- TOTTER MIDI systems give you the possibility of later improvements and upgrades.
- Possibility of later installation of microphone system and wireless system.
- You can choose between different colours of display.
- Small dimension of electronic parts in SMD technology increase flexibility of installation.

When you know, to whom you entrust your accordion!

Use

Controlling with a LED managing display is simple, fast and always by hand. Display and control lights are good seen also in darkness as at daylight. A pleasant design and well considered plan of keys are there with a reason. With LED managing display you can change and save any adjustment you want in inner memory. For this work you do not need a personal computer or some special programmer.

It is efficient, quickest and economical solution, which is used best in practice. You can change and select between advanced saved programmes during playing.

Making

- Topmost electronic components assure reliable and fast working in all circumstances.
- Economical and miniature circuits assure low electricity usage.
- Protective foil is protecting inner of display from moisture and other dirt.
- Electronic sensors, which are temperature compensated, assure stably activity and precise perception of condition of keys and bellows. Electronic sensors are working contactless (on distance).
- There is no friction and mechanical wear out parts, which assures long lifetime of system.

Production

We are building modern, fast and economical components in all our products. We are having control over all component parts in our own topmost equipped production line. Smallest electronic components are just 0,3 x 0,6 mm in size. Robotize production line assures highly and stable quality of products, for which warrant TOTTER MIDI d.o.o.

TM-4-LUX

TM-4-LUX is one of the most recommending model, because it is one of our top models. It is the only MIDI system with exclusive and patented function TOTTER MIDI QUINTET[®]. With this function you can very simply imitate the sound of the Alpine quintet.

When you are standing on stage you can select prepared settings from the accordion memory, prepared in advance. The operation with display is fast, simple and always handy, in dark or in daylight as well. You can adjust and save your own settings. You do not need programmer or PC for changing settings. It is suitable for everyone who likes to enjoy in music. With TM-4-LUX you can play all kinds of music (entertaining or Alpine music, classical music, jazz, rock...), because you have all functions (TOTTER MIDI QUINTET[®], TOTTER MIDI GUITARIST[®], DYNAMIC OVERPLAY[®] of instruments). The greatest satisfaction is when everything sounds the way you wish. Give yourself a pleasant surprise!

TM-4-S

TM-4-S is a basic model, which has an outer keyboard with a LED managing display. You can choose between gold, silver and black colour. It has an internal memory with 50 programmes, where you can save your own adjustments. It makes possible to call up for the desired attitude fast, even during playing. You will be enraptured with uniquely top dynamic and extraordinary reactivity of TOTTER MIDI system. You can play with DYNAMIC OVERLAP[®] of instruments when you are playing life or with automatic accompaniment. TM-4-S is suitable for everyone, who can perhaps miss the sound of the Alpine music but can not miss all other functions.

TM-4-N

More pleasure than the simplest model TM-4-B offers model TM-4-N. It is build on left and right side of accordion. Outside appearance of accordion after building TM-4-N remains unchanged. Strong and modular building of system enable later building on each more efficient models and improvements. The data are transmitted from the accordion over more different MIDI channels, which gives you the opportunity of playing and contolling more different instruments at the same time. The model also offers you to play with automatic accompaniment. With TM-4-N you enjoy playing whole accordion with midi connection.

TM-4-BK

Full control over left side (chords and basses) of accordion offers you model TM-4-BK. You can reach settings with help of display very fast and simple. You can choose between 50 programmes which you can change and save in inner memory in accordion. Full control of all instruments is in your hands. It is recommended in combination with microphone system TM-4-ACOUSTICS. This system makes you reach the sound effect of a trio occupation (accordion, guitar and bass), with it you will surly make an impression on audience. It also offers you to play with automatic accompaniment. It is very suitable for training basses. TM-4-B is the right choice for you if you want to learn new bass figure and increase rhythmicity of playing.

TM-4-B

TM-4-B is the simplest model which enables you to play basses and chords (complete left side) with MIDI connection. It is suitable for everyone who wants to have support of additional instruments on left side of accordion. It is recommended in combination with microphone system TM-4-ACOUSTICS. Outside appearance of accordion after building TM-4-B remains unchanged. Reliable and widespread base enables later building on each more efficient models.

Characteristics and functions

	TM-4-B	TM-4-BK	TM-4-N	TM-4-S	TM-4-LUX
MIDI system MIDI system on the bass side (left side of the accordion)	●	●	●	●	●
MIDI system MIDI system on right side of the accordion			●	●	●
Keyboard with LED display for operation		●		●	●
Contactless perception of keys' and bellow's condition	●	●	●	●	●
On/off for each track separately	○	●	○	●	●
Exclusive toggling of tracks				●	●
Function TOTTER MIDI QUINTET [®]					●
Function TOTTER MIDI GUITARIST [®]	○	●	○	●	●
Dynamics is adjustable for every track separately	○	●	○	●	●
DYNAMIC OVERPLAY [®] of instruments	○	●	○	●	●
Possibility for adjustments and settings of all parameters for each instrument (part) specially (volume, intensity, two arbitrary effects, instruments, variations, MIDI channels, transposition,...)	○	●	○	●	●
Function of the solo upper tone					●
Function of the solo lower tone					●
Manual on/off of automatic accompaniment		●		●	●
Additional bass which is adjustable round extent	○	●	○	●	●
Additional drums for basses and chords with adjustable tones	○	●	○	●	●
Choice of the external user's settings (rhythmus, programmes...)		●		●	●
Choice of the internal user's settings (internal programmes)	○ (1)	●	○ (1)	●	●
Additional channel for chords- sample channel	●	●	●	●	●
Bellows nullification, function "shut" and function of elimination	○	●	○	●	●
Memory of all adjustable parameters into the internal memory plant		●		●	●
Number of programmes in accordion.	(1)	50	(1)	50	100

○ Unique setting at TOTTER MIDI service.

TM-4-ACOUSTIC

Microphone system for accordion

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Characteristics

- Can be build into any accordion
- Independent installation or together with TOTTER MIDI system
- Installed pre-amplifier
- Installed active filter
- High operating stability
- Large dynamic span
- Separate outputs: right side, left side and vocal
- Linear frequency response
- More microphones for constant supllly of sound
- Splitter with control of activity

Use

TM-4-ACOUSTIC is professional microphone system for accordion. Microphone is attached on accordion and can be use for singing or speech. It is suitable for live playing or recording. It can be used immediatly.

It offers high expression strength and makes possible to move free during the playing. It is suitable for all kinds of music (entertaining music, Alpine music, classical music, jazz, pop...). Accordion is constantly supplied with special microphones on both, bass and right site (top to bottom). A separate sound supply of right side, left side and vocal (sing, speech) assures you the control and attitude of arbitrary parameters (volume, effects...) is separately for each trace. It is suitable for acoustic playing, as well as in combination with TOTTER MIDI system.

It is recommended to everyone who wants to enjoy playing accordion with less effort.

Connection

Accordion with an inserted microphone system TM-4-ACOUSTIC must be attached directly on speaker system (normal amplifier, mixer, active speaker, radio -HiFi component).

All signals are transmitted on one cable or wireless system from accordion to active splitter. That also stands if, besides microphone system, TOTTER MIDI system is in accordion. Besides exits (sockets) on active splitter are control lights. Control lights show situation of system's activity. Lights shine at sound signal, MIDI signal and charging. Common adapter, which is connected to splitter, is charging electronics in accordion and active splitter.

Installation

- TM-4-ACOUSTIC consists of active microphones, pre-amplifier, splitter, power cable and adapter.
- It can be build into each accordion.
- Independent installation or together with TOTTER MIDI system.
- Possibility of later installation of MIDI system.
- Installation time can be cut down, at preliminary agreement, on 1 day.
- Acoustics and outside appearance of accordion remains unchanged.
- You can choose connection socket's position on your own.

Microphones and active electronics

Quality active microphones with linear frequency characteristic seize the whole frequency spectrum of sound signal. Active microphones are installed in accordion. The number of microphones depends on size of accordion. All tones position (low, middle, high) are evenly supplied with loudspeakers. Hanging attachment of the microphones absorbs distinguished unwanted noise of the cover keys and oscillations, transfered over the accordion.

Audio channels are separated and allow tone's control of each. Each channel (right side, bass and vocal) has installed its own pre-amplifier, which assures excellently steering of speaker system, reduces noise on joints and cables and reduces radio disturbances.

For larger stability of system cares one active filter on each audio channel. Modern electronic components assure reliable and precise effect in all situations and a low energy consumption, which is very important, especially with wireless playing. The vocal microphone can be fastened on the accordion as tie microphone or head microphone. The fastened microphone can be taken away for transport. The position of the microphone can be adjustable by a variable holder "goose neck".

Security

TOTTER MIDI systems suit valid EU guidelines for this kind of electrical devices and suit safety regulation:

Emission	EN 50081-1,	CE
Immunity	EN 50082-1,	
Security	LVD EN 61010-1.	

Technical characteristics

Frequency span:	20 Hz - 20000Hz
Temp. range:	-10°C / +50°C
Max. rel. humidity:	90% @ 40°C
Max. SPL:	> 142 dB
Signal/Noise:	> 60 dB
Standard exit:	+ 5dB

Frequency span

