

Radio keypad VNB702N

Installation, operating & maintenance manual



These instructions are to be passed on by the fitter to the user.



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Caption



Important information;
please note.



Relevant for the
assembly operation



For this manual in other
languages see www.fuhr.de



Relevant for the
end user



1 Application possibilities

The radio keypad VNB702N is a cutting edge and secure radio access system with 2-channel technology. It enables the keyless opening of e.g. doors equipped with the FUHR motor locks **autotronic** 834, **autotronic** 836 or **multitronic** 881. Opening is done via an individual 4- to 8-digit opening code. Additional keys are the programming key and the bell key, which can be used as a doorbell with the optionally available FUHR radio gong.

Communication between the keypad and the motor lock control is wireless. As an alternative to the control unit, a radio receiver module can be installed directly on the motor of the **multitronic/autotronic** can be used. Optionally, the radio keypad can also be used to control garage doors, for example. For this purpose, we offer a mains-operated socket radio receiver or a universal radio receiver. In addition, it is possible to manage the two radio channels of the keypad via app when using the **SmartConnect easy/door**.

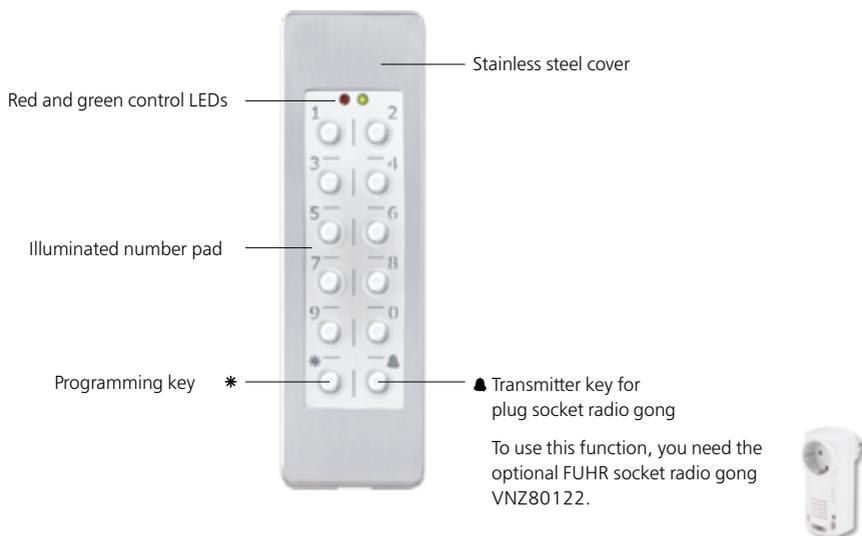




2 Important advice

2.1 Description of the keys and displays

The cover and keys of the radio keypad are made of high-quality, low-wear stainless steel. The function keys are guided in an illuminated light guide element, which makes it easier to operate the unit in the dark.



2.2 Different radio channels

The radio keyboard transmits on 868.3 MHz two different channels which are protected by rolling code. Through these 2 channels you have the possibility to control two different devices, such as:

Channel 1 for the control of the **multitronic/autotronic** entrance door

Channel 2 for the control of another **multitronic/autotronic** door or in conjunction with the FUHR radio receiver for a motorised garage door drive unit

2.3 Power failure

A power failure has no effect on the stored codes; they remain stored. Opening the door automatically cannot be effected.



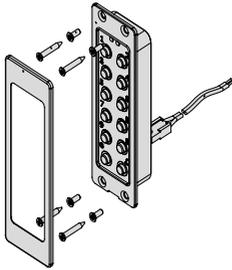
We generally recommend the installation of a mechanical cylinder in the main-lock casing in order to warrant the possibility of mechanical access at all times.



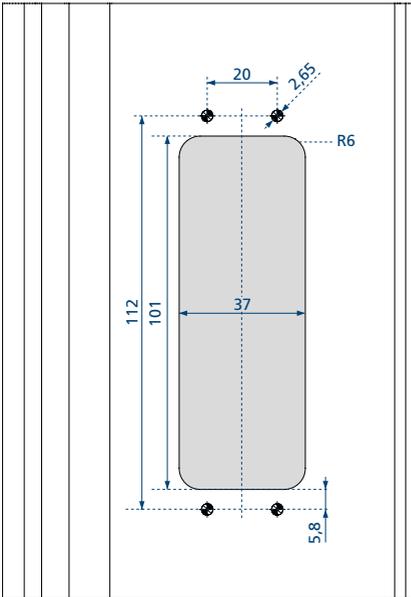
3 Installation advice

3.1 Scope of delivery

- Radio keypad with flat stainless steel cover and connection cable (1600mm)
- 4 fixing screws M3 x 8 for aluminium + steel
- 4 fixing screws 3 x 20 mm for timber + PVC
- Installation, operating & maintenance manual



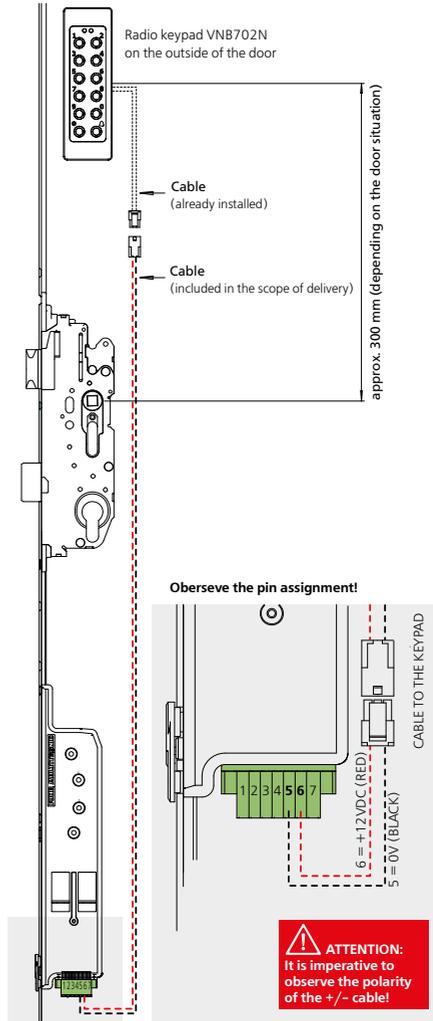
3.2 Routing dimensions/Drilling jig



3.3 Connection to the power supply

The radio keypad requires 12VDC (direct current) as operating voltage, which can be taken directly from the motor drive of the **multitronic/autotronic** motor lock.

⚠ Please observe the correct polarity (+/-) to the voltage source!



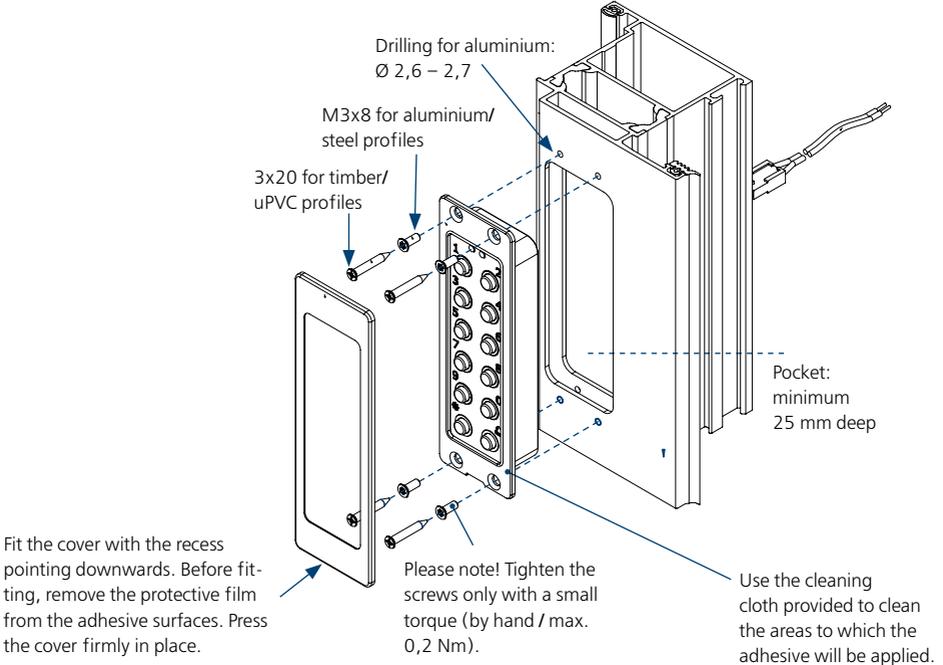


3.4 Mounting the keypad

Connect the keypad to the power supply (see chapter Kapitel 3.3). Place the keypad housing in the pre-milled hole and screw it into the profile with the screws provided.



Attention: Before gluing on the stainless steel keypad, check that it is functioning properly and connect it to the radio receiver or the control unit (see chapter 5.2). Once the cover is in place, it may not be possible to remove without damaging it. Replacement cover: Article no. VNB28062N.



3.5 Technical specification

Operating voltage:	12 V DC
Current consumption:	ca. 40 mA
Opening impulse:	868,3 MHz radio signal, encrypted as rolling-code
Transmitting channels:	2 pieces
Transmitter range:	ca. 100 m (free field)
Housing dimensions:	100 x 36 x 14 mm (H x W x D)
Cover dimensions:	125 x 40 x 2 mm (H x W x D)
12 V DC cable length:	1.600 mm



4 Commissioning and programming

The radio keypad is ready for use as soon as it has been connected to the motor locks 12 V DC power supply. Use the following factory preset codes for the first entry:

- Opening code 1 = 1 1 1 1
- Opening code 2 = 2 2 2 2
- Master code = 9 9 9 9 9 9 9 9



Please note: For safety reasons, it is essential to reprogram the factory-set master and opening codes during installation!

4.1 Programming a new 8-digit master code

The master code must always consist of 8 digits and can be changed as often as desired. When programming, make sure that there are no more than 5 seconds between the individual steps, otherwise the programming process will be aborted!

Proceed as follows to programme a new code:

1. Activate the keypad by pressing any key.	The keypad lights up.
2. Press the programming key *.	The green LED flashes slowly.
3. Enter the factory-set master code 9999 9999 (or your previous code).	
4. Confirm with the programming key *.	The green LED flashes slightly faster.
5. Press the programming key * once more.	The green LED flashes very quickly.
6. Enter a new 8-digit master code.	
7. Confirm with the programming key *.	The green and red LEDs are flashing.
8. Enter the new master code once more.	
9. Confirm with the programming key *.	The green and red LEDs stop flashing.
10. The new master code has now been successfully saved!	



**Please make a careful note of the master code and keep it well protected!
If you lose this master code, you will no longer be able to reprogram the unit!**



4.2 Programming a new opening code (4 to 8 digits)

The opening code can consist of 4 to 8 digits and can be changed as often as desired. When programming, make sure that there are no more than 5 seconds between the individual steps, otherwise the programming process will be aborted!

Proceed as follows to programme a new code:



While programming an opening code, please do not press the bell key (transmit signal key for socket radio gong).

1. Activate the keypad by pressing any key.	The keypad lights up.
2. Press the programming key *.	The green LED flashes slowly.
3. Enter the master code.	
4. Confirm with the programming key *.	The green LED flashes slightly faster.
5. Enter a new 4 to 8-digit opening code and also the digit for the desired channel: Digit 1 for channel 1 Digit 2 for channel 2.	
6. Confirm with the programming key *.	The green LED stops flashing.
7. The new opening code has been saved for the selected channel (1 or 2)!	



Note that a separate code must be used for each opening channel.

Example for programming an opening code for channel 1 and channel 2

Desired opening code and channel	Programming
Opening code 1 2 3 4 5 for channel 1 , e.g. front door	Number input: 1 2 3 4 5 1 (Opening code 1 2 3 4 5 and the digit 1 for channel 1)
Opening code 9 8 7 6 5 for channel 2 , e.g. garage door	Number input: 9 8 7 6 5 2 (Opening code 9 8 7 6 5 and the digit 2 for channel 2)

When the opening code for channel 1 (1 2 3 4 5) or channel 2 (9 8 7 6 5) is subsequently entered, the radio keypad automatically sends a radio signal via channel 1 or channel 2 to the control unit/radio receiver and opens e.g. the front door (channel 1) or garage door (channel 2).



4.3 Input of opening code

The keypad is always in a power-saving mode when not in use.

Proceed as follows to open the door:

1. Activate the keypad by pressing any key.	The keypad lights up.
2. Enter your opening code (for first-time code entry, see chapterKapitel 4).	The green LED lights up briefly with each digit entered. As soon as the opening code is correct, the green and red LEDs light up for 1 second. At the same time, a radio signal is automatically sent to the desired channel. The red LED goes out and the green LED remains lit for approx. 5 seconds.
3. As long as the green LED is lit (approx. 5 seconds), you can send another opening signal by pressing any numeric key again. This allows you, for example, to stop the garage door or reverse its direction of movement without having to enter the opening code again.	Approximately 5 seconds after the last key is pressed, the green LED goes out and the radio keypad goes back into energy-saving mode after approx. 10 seconds..

4.4 Blocking times as tamper protection

If the red LED starts flashing 5 times after the code has been entered, an incorrect opening code has been entered!

If an incorrect opening code is entered 5 times in succession, the keypad is locked for 1 minute! During this locking period, the red LED lights up continuously and the unit cannot be operated. Only after this blocking time has elapsed does the red LED go out and it is again possible to generate a radio signal by entering the correct code.

If an incorrect opening code is entered 5 times in succession again, the locking period increases first to 5, then to 10 and finally to 15 minutes. The locking period can be cancelled by switching off the power.



5 Tuning-in processes

5.1 Tuning in the radio gong to the keypad for a ringing signal

To be able to use the bell key of the keypad, you need the optional FUHR socket radio gong VNZ80122.

Proceed as follows to set up the ringing signal:

1. Plug the radio gong into a standard Schuco socket.
2. Press the PROG programming button for more than 5 seconds until it slowly flashes and a control tone sounds.
3. If you want to use the factory preset ringtones, go directly to step 5.
4. For the individual setting of the ringtones, select your desired ringtone by repeatedly pressing the PROG button. After the ring tone has faded away, you can change the duration of the ring tone. (max. 1 minute). To do this, press the PROG key again and keep it pressed until the desired duration is reached.
5. Finally, press the bell key on the keypad. The control tone and a short flashing of the PROG and loudspeaker key confirm the successful teach-in.
6. The radio gong then switches to operating mode.

Please also read the detailed instructions for the socket radio gong at www.fuhr.de.



5.2 Tuning in the radio keypad to the control/radio receiver

In order for the radio keypad to be able to open a motor lock, it must be tuned in to the **multitronic/autotronic** control unit. The control is located inside the building. The radio keypad is tuned in like a new radio key (see the installation and operating instructions for **multitronic 881** and **autotronic 834/836**). When using the radio receiver module VNBFP490 mounted on the motor drive, the tuning-in procedure is identical.

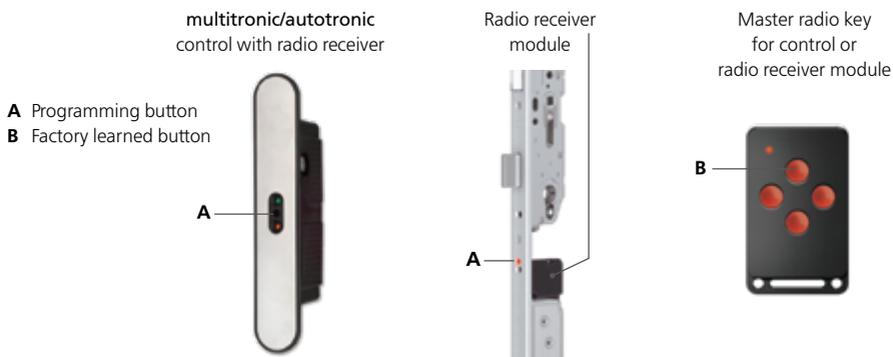
Proceed as follows to tune in:

During the tuning-in process, when using a radio receiver module, make sure that the tapet contacts of the door and the contact surface unit in the door frame are always in contact.



Note: Steps 3 – 5 must be carried out within 20 seconds. If the time window is exceeded, the tuning-in process is aborted. Then start at step 1.

1.	Take the master radio key of your multitronic/autotronic locking system in your hand.	
2.	Press the programming button (A) of your control or radio receiver module for approx. 1 second. .	The green LED of the control unit or the red LED of the radio receiver module starts flashing.
3.	Now switch to your radio keypad on the outside of the building. Press the front, middle button (B) of the master radio key for approx. 1 second.	The green LED of the control unit or the red LED of the radio receiver module lights up for approx. 2 seconds and then starts flashing.
4.	Activate the radio keypad by pressing any digit (but not the bell key). Now enter the opening code of the desired channel within 20 seconds.	The LED of the radio keypad then lights up green and red.
5.	After approx. 2-3 seconds, press any number key on the radio keypad again to send a second radio signal.	The green LED of the control unit or the red LED of the radio receiver module lights up for 4 seconds and then goes out..
6.	The radio keypad can now be used to open the door.	



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