

## Intruder alarm panel Terxon MX – Operating instructions



# Perfect Security for home and office

These operating instructions are an important product accessory. They contain important installation and operation information. Bear this in mind if you pass the product on to others. Store these instructions in a safe place for future reference.

For a list of contents with page numbers, see page 3.

CE

## 1 Introduction

#### Dear Customer,

UK

thank you for purchasing the Burglar Alarm Panel Terxon MX. You have purchased a product that has been designed and constructed according to the state-of-theart,

which complies with the current standards of domestic and European regulations. The CE has been proven and all related certifications are available from the manufacturer (www.abus-sc.eu) upon request.

To maintain this status and to guarantee safe operation, it is your obligation to observe these operating instructions!

In the event of questions, please contact your local specialist dealer.

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## 2 Usage in accordance with regulations

This burglar alarm panel uses detectors and transmitters to secure your property. You can use it to protect your company, house, garage, garden house, weekend cottage, etc.

The alarm centre registers unauthorised break-ins by switching output contacts to which you can connect visual, acoustic or silent alarm transmitters.

The alarm centre contacts and connected components must be kept free of moisture (bathrooms and similar surroundings are to be strictly avoided). Use of this product for other than the described purpose may lead to damage of the product.

Other hazards such as short-circuiting, fire, electric shock, etc., are also possible. The power unit is designed for operation with mains electricity at 230 Volt AC / 50 Hz.

No part of the product may changed or modified in any way.

Connection to the public power network is subject to country-specific regulations. Please be aware of applicable regulations in advance

## 3 Contents

1 Introduction	2
2 Usage in accordance with regulations	2
3 Contents	3
4 Precautions	4
5 Control unit	
6 Activation	6
6.1 Complete activation	6
6.1.1 Display when active	
6 1 2 Open zones	7
613 Abort	7
6.2 Internal activation	8
6.3 Key switch	8
7 Deacitvation	9
8 Alarm	9
8 1 Alarm display	9
8.2 Resetting the system	9 9
9 User functions	10
9 1 Blocking zones	10
9.2 User code	11
9.3 Changing the user name	
9.4 Touch-free proximity reader (chin key)	13
9.5 Deleting a chin key	13
9.6 Event memory	10 14
9.7 Changing date and time	
9.7 Changing date and time	15 16
9.0 Switching door chime on/on	10
0.0 1 Siren test	10 16
9.9.1 Shen test	10
10 Operating a partitioned system	10 18
10 1 Control unit	۲۵ 18
10.2 Activiting a partition	10
10.2 Activating a partition	10
10.5 Deactivating a partition	10
10.4 Auto all didilli	19 40
10.4.1 Switching on the system	
10.4.2 Resetting the system	
10.5 BIOCKING ZONES	
	20

## 4 Precautions

#### **!WARNING!**

To avoid fire and injury, please observe the following:

- Securely fasten the device at a dry location in the building.
- Ensure sufficient air circulation for the alarm centre.
- Do not expose the device to temperatures less than -10°C or more than 55°C.
- The device is designed for indoor use only.
- Humidity must not exceed 90% (non-condensed).
- Make sure that no metal objects can be pushed into the equipment from outside.
- Ensure that the voltage is disconnected when performing work on the device.

#### **!ATTENTION!**

Please observe the following regulations to ensure trouble-free operation of your device.

- The alarm centre is supplied with 12V DC power by means of the internal transformer.
- The transformer is connected to the 230VAC building mains by means of a separate, electrically protected line.
- Connection work to the building mains is subject to country-specific regulations.
- A 7Ah rechargeable battery supplies emergency standby power.
- The maximum power consumption of connected components must never exceed 1A.
- Always replace fuses with fuses of the same rating, never higher.

#### **!IMPORTANT INFO!**

Burglar alarm panels in general:

If the equipment is not correctly installed, signals may be misinterpreted and result in false alarms. The costs resulting from the deployment of rescue organisations, e.g.: fire or police, are borne by the operator of the equipment. Therefore please read the instructions very carefully and follow the installation instructions for lines and components precisely.



Point	Description
1	Solution The LED lights constantly if the there is a fault in the telephone line.
2	The LED lights constantly if the system has a fault and must be checked.
3	The LED lights constantly if the power supply is present and working. The LED flashes if the power supply fails and the alarm system is being operated by the battery.
4	These buttons activate the alarm system in the different areas.
5	LCD control unit plain-text display
6	This button confirms input.
7	This button cancels input and calls the blocking user function.
8	This buttons opens the front cover.

## Additional buttons (see programming menu "87 Control Unit Alarm"):

- **1 & 3:** Press simultaneously to trigger a panic alarm on the control unit.
- **4 & 6:** Press simultaneously to trigger a medical emergency alarm on the control unit.7 & 9: Press simultaneously to trigger a fire alarm on the
- control unit.

## 6 Activation

#### 6.1 Complete activation

The alarm system is usually completely activated if you intend to leave the object completely unattended. The alarm centre can be activated only if all zones are ready – i.e., all windows and doors are closed. There are two ways of completely activating the alarm system via the control unit (another way is via a key switch, see page 8):

- 1.) Enter a valid user code: **1 2 3 4** and then press:
- 2.) Enter a valid user code: **1 2 3 4** and then press:
  A (In Single System only. In a Partitioned System only partition A will be activated).

You now have three variants, depending on how the alarm centre was programmed to behave when you activate the alarm system:

#### a) Exit delay

The alarm system is activated after the specified exit delay time expires.

#### b) Last door

The alarm system is activated when you close a zone with the entry/exit property.

#### c) Manual

The alarm system is activated when a contact connected to the control unit is closed.

#### Exit delay

If the exit delay variant is programmed, you now see the following on the LCD display:



The alarm centre has now started the exit delay time so that you can leave the object. The delay time is now counted down in seconds. A constant signal tone is now generated for the duration of the delay time (if you hear no constant tone, read the section "Open zones" on page 7).

**IMPORTANT:** The signal tone is generated only if this is set in the program menu.

#### Last door

If the last door variant is programmed, you now see the following on the LCD display:



The alarm centre now generates a constant signal tone (if you hear no constant tone, read the section "Open zones" on page 7). You can now leave the object. The alarm system is not activated until you close a zone with the entry/exit property. If this zone is already closed when you activate, it must be opened and closed again (opening and closing the entrance door). The alarm system is activated seven seconds after the zone is closed.

**IMPORTANT:** The signal tone is generated only if this is set in the program menu.

#### Manual

If the manual variant is programmed, you now see the following on the LCD display:

Level A ----TERXON M

The alarm centre now generates a constant signal tone (if you hear no constant tone, read the section "Open zones" on page 7). You can now leave the object. The alarm system is not activated until you close the entry/exit zone and close a contact connected with the control unit. The alarm system is activated seven seconds after this contact is activated.

**IMPORTANT:** The signal tone is generated only if this is set in the program menu.

#### 6.1.1 Display when active

After the delay time expires, the alarm centre is activated and emits a double tone to confirm successful activation, irrespective of how it is programmed. The control unit display shows:



**IMPORTANT:** This display appears only if this is set in the program menu.

In the program menu, you can make the setting so that the display disappears after about 30 seconds and the date and time are shown instead.

#### 6.1.2 Open zones

If the alarm centre cannot be activated because a zone is still open, it issues a double tone. It then displays the zone(s) preventing activation of the alarm system.



Close the open zones and activate the alarm system again.

If a zone is opened during the delay time, the constant tone is interrupted and you hear a pulsed signal tone. These zones are shown on the LCD display. The zones must be closed within the exit delay time, otherwise there is an internal alarm and the system is not activated. Confirm this alarm by entering a valid user code. The control unit LCD displays the zones preventing activation of the alarm system.



Before you can activate the alarm system again, you have to reset the alarm centre. To do this, enter a valid user code:

**IMPORTANT:** If defined in the program menu, you have to enter a program code (installer code) to reset the alarm centre.

Some zones are allowed to be open at the moment of activation. Despite the open zones, the alarm system starts counting down the exit delay time, but instead of a constant tone, it issues a pulsed signal tone. You must close these zones within the delay time, otherwise there will be an internal alarm as described above. Zone types that are allowed to be open are: entry/exit and entry to follow zones.

#### 6.1.3 Abort

You can cancel the exit delay by entering a valid user code.

#### 6.2 Internal activation

If you want to monitor only part of your object - e.g., only the contacts of your windows or the ground floor - you can activate the alarm system internally.

In the alarm centre's program mode, you can define zones not to be monitored by internal activation. To activate internal mode B, C or D:

Enter a valid user code: **1 2 3 4** and then press: **B**, **C** 

or **D**. Depending on programming, the different zones are now activated.

Level B Set TERXON M

The alarm centre has now started the exit delay time so that you can leave the area. The delay time is now counted down in seconds. A constant signal tone is generated for the duration of the delay time. The remaining sequence of events is as for activating the complete alarm system.

**IMPORTANT:** Immediate activation of internal areas can also be programmed – i.e., without a delay time. In that case, there is no constant tone and the system acknowledges successful activation of the area.

#### 6.3 Key switch

With a key switch, you can activate or deactivate your alarm system with a key instead of a user code. It is also possible to activate via the control unit and deactivate using a key switch, or vice versa.

The alarm system can also be activated in different areas with a key switch, depending on how the zone is programmed. Also, only the area programmed for a key switch can be deactivated. An alarm can be stopped immediately at any time.

#### TIP:

The use of key switches is particularly useful in the commercial area. In particular, where there are many different users, or the risk of passing on the user code to unauthorised persons is to be avoided.

## 7 Deacitvation

You can deactivate your alarm system at any time (even after an alarm) by entering a valid user code. When you enter the object through an entry/exit zone, the programmed entry delay time starts. You now have to enter your user code within the programmed delay time, otherwise an alarm is triggered when the delay time expires. Proceed as follows:

Enter the building by a door programmed as an entry/exit door. The entry delay time starts. A fast pulsed signal tone is sounded.



#### Enter a valid user code: **1 2 3 4.**

If you enter a valid code before the entry delay time expires, the alarm system is deactivated. A double tone follows and the LCD display shows the date and time again.

### 8 Alarm

#### 8.1 Alarm display

If an alarm situation occurs when the alarm system is active, an internal, local or external alarm is triggered, depending on the setting in the program menu. After the alarm centre is deactivated, the zone that triggered the alarm is displayed. The alarm centre shown the zone via the LCD display:



Following an alarm, the alarm system must be reset.

#### 8.2 Resetting the system



To reset following an alarm, you have to enter a valid user code. Enter the user code again.

**IMPORTANT:** If defined in the program menu, you have to enter a program code (installer code) to reset the alarm centre.

### 9 User functions

A series of functions can be performed via the control unit. Summary of user functions.

Input	Function
User code + X	Locks a zone
Master code +4	Changes user name and user code
User code +5	Displays the event memory
Master code +6	Date and time input
User code +7	Switches door chime on/off
User code +8	Tests acoustic and visual signalling device
User code +9	Walk test

To perform these functions, you have to enter a valid user code or master code. Instead of the user code, you can also point a chip key to the control unit.

#### 9.1 Blocking zones

This enables you to block (hide) individual zones to remove them from surveillance. The zone is blocked once only (for the next active monitoring period – i.e., until the next deactivation) and, if required, must be blocked again the next time you activate the alarm system. Proceed as follows:

Enter a valid user code. The LCD display shows:



Press: X

The control unit shows:



Now enter the two-digit zone number of the zone you want to block (i.e., remove from surveillance).

Press:

The control unit shows:

Omit Zone 01o TERXON M

To block further zones, enter their numbers. To unblock a zone, re-press the key.

To quit the display, press the following key:

**IMPORTANT:** Some zone types cannot be blocked. You can only block zones released during the programming of the zone property. Zones that cannot be blocked are displayed with an "X" after the zone number. The control unit shows:



To activate the alarm system with blocked zones:

Enter your user code and activate an area. The system emits an error tone and the display shows (example):



To activate the alarm system with the blocked zone, press the following key:  $\checkmark$ .

If you have blocked more than one zone, press the key again until you have confirmed all zones. If you do not want to activate the alarm system, press the following key:  $\mathbf{X}$ 

After you have activated the last zone, the alarm system starts the delay time.

**IMPORTANT:** Blocked zones are blocked for one activation period only.

#### 9.2 User code

The first user code is also the master code. With this code, you can create further user codes and user names. The alarm system can store up to 16 user codes. All users should have their own codes.

Every time a user is entered, this event is stored in the event memory with the user number B001, B002,.... The factory-set codes for users 002 to 016 are x002 to x016.

Apart from the user codes, there is also a panic code (B017). If the panic code is entered instead of the user code to deactivate the alarm system, the alarm system is deactivated, but another exit is activated that can be silently transmitted by telephone.

User codes B002 to B016 plus the panic code B017 do not function until they are changed.

To change the user code:

Enter the master code.

The control unit shows:



Press: 4

The control unit shows:



Enter the user code you want to change. If the user codes have not been changed, enter for users B002 to B016 and for the panic code B017 the codes x002 to x016 and x017 respectively.

#### Confirm your input by pressing:

The control unit shows:

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### U02:User 02 TERXON M

If you do not want to change the user name, press the following key: . If you want to change the name, see the section "Changing a name" on page 11.

After confirming the input of the user name, you are asked to enter the new user code.

The control unit shows:

User 02= **TERXON** M

Enter the new four-digit code. Do not use a "0" (zero) as the first digit.

Confirm your input and press the following key:

IMPORTANT: To delete a code, enter **0 0 0 0**.

#### 9.3 Changing the user name

Enter the user name (max. 12 characters) via the keypad.



In the following, the zone name "HOFNED" is entered.



If you make a mistake, you can move the cursor back by pressing the D key  $\square$ D.

You can delete a letter or digit by entering a blank at the respective position with the 0 key  $\boxed{0}$ .

After entering a new user name, confirm your input. On the control unit, enter:  $\checkmark$ .

#### 9.4 **Touch-free proximity reader** (chip key)

Instead of entering a user code, a user can obtain legitimation using a touch-free proximity reader (chip key). Point the chip key at the control unit instead of entering a user code. You can give both the master code and a chip key to any user code. To add a chip key to the system:

Enter the user code 1 (B001 or the master code).

The control unit shows:



Press: 4

The control unit shows:



Enter the user code to which you want to add a chip key.

The control unit shows:



Confirm your input by pressing.

The control unit shows:



Hold the chip key in front of the control unit. The control unit now loads the chip key function and confirms successful learning with a double tone.

The control unit now displays the date and time. To add a new chip key, repeat the above steps.

#### 9.5 Deleting a chip key

A chip key can only be deleted together with the user code. If you delete the user code, you simultaneously delete the chip key.

Delete the chip key in the same way as you delete a user code, and then enter this user code: **0 0 0 0.** 

Confirm your input by pressing.  $\checkmark$ .



The alarm centre confirms the deletion of the user code and the chip key with a double tone.

#### 9.6 Event memory

The alarm system stores the last 250 events. To read the alarm memory:

Enter a valid user code.

The control unit shows:



#### Press: 5

The LCD display shows the latest events first.

You can page forwards and backwards in the event memory. Press key 1 to page forwards and key 3 to page backwards.

Press  $\checkmark$  to switch between the event and the date.

Press  $\mathbf{X}$  to exit the event memory.

The event memory cannot be deleted by the programmer or the user.

#### Entries in the event memory and their meaning:

Entry	Meaning
Power fault	Failure of 230V AC power supply
Power OK	230V AC power supply restored
Alarm cancellation	Alarm aborted manually by user
AUX DC fault	12V DC power supply failed or AUX fuse defect
AUX DC fault	12V DC power supply restored
OK	
Bad Checksum	Error in alarm centre memory
Battery fault	Failure of battery charger or battery fuse defect
Battery fault OK	Battery charger restored
Break-in zone	Zone nn has triggered a burglar
nn alarm	alarm
Break-in Zone	Zone nn OK

nn OK	
Factory settings	Factory settings restored
loaded	
EEPROM fault	Memory error in the alarm centre
Fire zone nn	Zone nn has triggered a fire alarm
alarm	
Fire zone nn	Zone nn reset
reset	
Fire zone nn re-	Zone nn re-connected
connected	
BDTnn code	A user has tried too often to enter
lock	code in the control unit
BDTnn fault	Control unit nn failed
BDTnn	Control unit nn reconnected
connected	
BDTnn Sabo	Control unit has triggered a tamper
	alarm
BDTnn Sabo OK	Control unit nn tamper reset
BDTnn FE	Fire alarm triggered at control unit nn
Alarm	
BDTnn MN	Medical emergency alarm triggered
Alarm	at control unit nn
SSL active ZN	Alarm centre activated via key switch
nn	of zone nn
Entry	Meaning
SSL de-active	Alarm centre deactivated via key
ZN nn	switch of zone nn
SBox ZN nn	Zone nn with key box property closed
closed	
SBox ZN nn	Zone nn with key box property
open	opened
Sabo central	The lid contact of the alarm centre
alarm	was triggered
Sabo central	The lid contact of the alarm centre is
alarm OK	closed again
Battery fault	Fault in battery power supply
Battery fault OK	Fault in battery power supply
	remedied
BDTnn ÜF	BDT nn has triggered a panic alarm
Alarm	
Panic ZN nn	Zone nn has triggered a panic alarm
alarm	
Panic ZN nn	Donio clarm of zone pp report
1	Partic alarm of zone nin reset
reset	Partic alarm of zone nin reset
reset Aktiv fehlg. ZN	The alarm centre could not be

Rauchm. Ala. ZN nn	Zone nn has triggered a fire alarm
Rauchm. Ala. ZN nn	Zone nn fire alarm reset
Detector test ZN nn	Zone nn sensor test failed
Siren tamper reset	Siren tamper alarm reset
Sir. Sabo	Siren tamper alarm triggered
System auto active	System automatically rearmed
System started	System supplied with power and started
Sabo ZN nn	Zone nn has triggered a panic alarm
Sabo ZN nn OK	Zone nn panic alarm reset
Tech ZN nn	Zone nn has triggered a technical
alarm	alarm
Tech ZN nn OK	Zone nn alarm reset
Tel line error	Error in transmission (not for Terxon S)
Tel line error OK	Transmission error reset
Bnn changed Bnn	User nn has changed the user code of user nn
Bnn deleted Bnn	User nn has deleted the user code of user nn
Bnn exit	User nn has exited the program menu
Bnn enter	User nn has entered the program menu
Bnn SYS OK	User nn has reset the alarm centre
Bnn SYS act	User nn has reset the alarm centre
Bnn SYS deact	User nn has deactivated the alarm centre
Bnn time/date	User nn has changed the time and date
Bnn ZN nn locked	User nn has removed ZN nn from monitoring
Bnn ZN nn unlocked	User nn has returned ZN nn to monitoring

The master code is saved as B00, and user codes 01 to 16 as B01 to B16. If you activate the system via a key switch, this is shown as B21.

#### 9.7 Changing date and time

The internal clock continues to run as long as it is supplied with power If both the mains and the battery supply fail, the date and time are reset. To change the date and time (e.g., from summertime to wintertime):

Enter user code 1 (or B001 or the master code). Only this code can change the date and time.

The display shows:



Press 6.

The display shows:



Enter two-digit numbers for the date, month and year. Use 01 for January and 12 for December.

Confirm your input by pressing:

After the final input, the display shows:



Now enter two-digit numbers for the time. Confirm your input by pressing:

After you enter the date and time, the alarm centre confirms with a double tone and the control unit shows the current date and time again.

#### 9.8 Switching door chime on/off

Your alarm system can be programmed so that some zones trigger a tone when entered. To activate/deactivate the door chime for these zones:

Enter your user code.

The control unit shows:



Press 7.

The control unit shows:



To toggle between on and off, press 7 again.

To confirm the setting, press

When the setting is saved, the alarm centre confirms with a double tone and shows the date and time again.

#### 9.9 System tests

#### 9.9.1 Siren test

You can test all connected acoustic and visual signalling devices. Proceed as follows:

Enter your user code.

The control unit shows:



Press 8.

The control unit shows:



The alarm centre now tests in this order the outputs marked as sirens, the outputs for the flashlight, the output for the loudspeaker, and the control unit. At the end of the test, the alarm centre emits with a double tone and shows the date and time again.

#### 9.9.2 Walk test

You can make a walk test to check that all sensors are working properly. However, make sure that nobody else can trigger a sensor during the test, since this would result in a false test evaluation.

Enter your user code.

The control unit shows:



Press 9.

The control unit shows:

## Walk Test TERXON M

Walk through your alarm system and trigger the sensors. If a sensor is triggered, this is reported acoustically by the control units and the internal alarms. Simultaneously, the control unit shows the zone that was triggered.

The control unit shows:



If more than one sensor is triggered, the zones are alternately displayed one after the other.

After triggering all sensors, end the test by pressing

**IMPORTANT:** You can end the test at any time by pressing . You cannot test fire, panic or 24 hour zones. You cannot test tamper contacts. UK

## 10 Operating a partitioned system

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The installer can program the alarm centre so that it behaves like 4 separate alarm centres. The partitions are called partition A, B, C and D. These can be switched active or inactive independent of each other. Several partitions can be switched active or inactive simultaneously; this is set by the installer.

#### 10.1 Control unit

In partitioned systems, buttons **A**, **B**, **C** and **D** have the following functions:

Button	Meaning
Α	Active / inactive Partition A
В	Active / inactive Partition B
С	Active / inactive Partition C
D	Active / inactive Partition D

#### 10.2 Activating a partition

1. Enter your user code via the keyboard or hold your proximity code key at the control unit. If no other partition is active then the display shows:

Option ?	
Terxon	Μ

If another partition is active then the display shows:



2. Press the required partition button. The display shows:



#### 3. Press 🗸

The display shows which partition the alarm centre is currently activating and the time until completion of the process. A beep is emitted at the control unit if this has been programmed.

After completion of the time, the alarm centre sets the partition to active and the control unit shows which partition is switched to active.

#### 10.3 Deactivating a partition

The entry time starts when you open the entry door. An intermittent beep is sounded during the entry time.

1. Enter your user code or hold your proximity code key at the control unit. The display shows the partitions that you can enter.



2. Press the corresponding partition button **A**, **B**, **C** or **D** and then press . The entry beep stops. The partition is now deactivated.

#### 10.4 After an alarm

#### 10.4.1 Switching off the sirens

Every partition can issue an alarm, independent of the other partitions. But not all users have access to all partitions. However, the system allows all users to switch off the sirens after an alarm.

The system shows an alarm in Partition A.



1. Enter your user code. The sirens are switched off. The display shows the partitions that you can access.



2. Press the corresponding button to deactivate the required partition. Press .

#### 10.4.2 Resetting the system

A partitioned system uses the same reset methods as a single system However, there are a few differences:

#### 1. User reset

Enter the user code or hold a proximity code key at the control unit. The display shows the partitions you can access.

2. Press . The display shows a 4-digit reset code.

3. Carry out a remote reset as described in the installation instructions.

#### 10.5 Blocking zones

The method used for blocking zones within the partitioned system has changed. Zones can no longer be blocked as long as the system is active.

1. Enter your access code (or proximity code key), and press X. The display shows:



2. Enter the number of the zone you want to block. If you are not authorized to block this zone, the display shows:



If you are authorized to block a zone then the following is shown:



If you have blocked an immediate alarm zone then the next time the system is activated, you are prompted to

confirm the zone block. Press , and the alarm centre begins to activate the blocked zone. During the next deactivation, the blocking of the zone is once more deactivated.

A blocked 24-hour zone must be manually unblocked via the control unit:

1. Enter the user code (or proximity code key)

2. Press X followed by the number of the zone and



## 11 System plan

This system plan provides information on components installed in your alarm system, their location and functioning, as well as any modifications. The system plan is always a component on the alarm system and should be stored in a safe place.

Zone	Description	Completely active A	Internal active B	Internal active C	Internal Active D	Lock possible	Door chime

Exit time A	Exit time B	Exit time C	Exit time D	
Entry time A	Entry time B	Entry time C	Entry time D	
Siren duration	Flashlight duration			

In the event of problems, please contact:

