ABUS WIRELESS ALARM SYSTEM

5INWSAIMABUK

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ABUS WIRELESS ALARM SYSTEM



INSTALLATION INSTRUCTION

These installation 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 installation instructions in a safe place for future reference.

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

For brief instructions of starting up the ABUS wireless alarm package, see page 11-88.

CE

Chapter 1 Contents

Chapter 1 Contents 1-3
Chapter 2 Usage in accordance with regulations 2-5
Chapter 3 Safety information 3-5
Chapter 4 Introduction to the ABUS wireless alarm system 4-6
4.1 Scope of delivery 4-6
4.2 What is the ABUS wireless alarm system? 4-7
4.3 What are the functions of the ABUS wireless alarm system? 4-7
4.4 What are the technical specifications of the ABUS wireless alarm system? 4-7
4.5 How can the ABUS wireless alarm system be extended? 4-9
4.6 CE manufacturer's declaration 4-10
Chapter 5 Initial considerations 5-11
5.1 What kinds of security are there? 5-12
5.2 What wireless detectors do I need? 5-13
5.3 Where do I install the ABUS wireless alarm system? 5-13
5.4 What is the best installation sequence? 5-13
Chapter 6 Installing the ABUS wireless alarm system 6-14
6.1 What is what inside the ABUS wireless alarm system? 6-14
6.2 How do I install the ABUS wireless alarm system? 6-15
6.2.1 Preparing the base plate 6-15
6.2.2 Assembling the base plate 6-15
6.2.3 Fixing the faceplate 6-16
6.3 How do I install the power and telephone connections? 6-16
6.4 How do I adjust the contrast of the LCD display? 6-16
6.5 How do I connect the other contacts in the ABUS wireless alarm system? 6-17
6.5.1 Connecting a wired sounder 6-17
6.5.2 Sounder tamper 6-17
6.5.3 Controllable relay and transistor outputs 6-17
6.5.4 Connecting a device ground 6-18
6.5.5 Connecting a wired zone 6-18
6.5.6 Connecting an external consumer 6-18
6.6 How are the standby batteries used? 6-19
6.7 What are the effects of the different jumper settings? 6-20
Chapter 7 Programming the ABUS wireless alarm system 7-21
Chapter 8 Settings in installer menu 8-21
8.1 Introduction to installer menu 8-21
8.2 [1] System 8-22
8.2.1 [1][1] Timers 8-22
8.2.2 [1][2] System Control 8-24
8.2.3 [1][3] Receiver 8-30
8.2.4 [1][4] Set Clock 8-31
8.2.5 [1][5] Labels 8-32
8.2.6 [1][6] Tamper Sound 8-34
8.2.7 [1][7] System Default Jumper 8-35
8.2.8 [1][8] Service Information 8-35
8.2.9 [1][9] Version 8-35
8.3 [2] Zones 8-36
8.3.1 [2][1] Allocation 8-36
8.3.2 [2][2] Parameters 8-37
8.3.3 [2][3] Zone Testing 8-45
8.3.4 [2][4] Editing 8-46
8.3.5 [2][5] Cross Zone 8-48
8.4 [3] Outputs 8-49
8.4.1 [3][1] Define 8-49
8.4.2 [3][2] Output A 8-54

8.4.3 [3] [3] Output B 8-54
8.5 [4] Codes 8-55
8.5.1 [4] [1] Authority 8-55
8.5.2 [4] [2] Partition 8-57
8.5.3 [4] [3] Grand Master 8-57
8.5.4 [4] [4] Installer 8-58
8.5.5 [4] [5] Sub-Installer 8-58
8.5.6 [4] [6] Code Length 8-59
8.6 [5] Dialer 8-60
8.6.1 [5] [4] U/D telephone number 8-60
8.6.2 [5] [5] U/D Access and ID 8-60
8.6.3 [5] [6] Controls 8-61
8.6.4 [5] [7] Parameters 8-63
8.6.5 [5] [9] Follow Me (FM) 8-66
8.7 [7] Key-fobs 8-68
8.7.1 [7] [1] Allocation 8-68
8.7.2 [7] [2] Parameters 8-69
8.7.3 [7] [3] Communication Test 8-70
8.8 [8] Keypads 8-71
8.8.1 [8] [1] Allocation 8-71
8.8.2 [8] [2] Communication Test 8-72
8.9 [9] Siren 8-72
8.9.1 [9] [1] Allocation 8-73
8.9.2 [9] [2] Parameter 8-74
8.9.3 [9] [3] Communication test 8-75
8.9.4 [9] [4] Siren Receiver Calibration 8-75
8.9.5 [9] [5] Tamper Mute 8-76
8.10 [0] Exit Programming 8-77
Chapter 9 Programming within the user programming menu 9-78
9.1 Programming voice messages 9-78
9.1.1 [7] [1] Message structure 9-79
9.1.2 [7] [2] Voice message labels 9-80
9.1.3 [7] [3] Test Message 9-84
9.1.4 [7] [4] Local Announcement Messages 9-85
9.2 Walk test 9-86
Chapter 10 Accessories for your ABUS wireless alarm system 10-87
Chapter 11 Brief guide 11-88
11.1 Hardware installation 11-88
11.2 Training the detectors for the ABUS wireless alarm system 11-89
11.3 Enabling voice text transmission by telephone 11-90
11.4 Exiting the installer menu 11-91
11.5 Programming date and time 11-91
11.6 Programming the FM (follow me) number 11-91
11.7 Triggering a test alarm 11-92
11.8 Changing the Grand Master PIN 11-92
Chapter 12 Example of an installation plan 12-93

Chapter 2 Usage in accordance with regulations

The **ABUS wireless alarm system** is used for protecting flats and homes and small to medium business objects. If the wireless alarm system and its accessories are installed properly, it alerts you in the case of intrusion, warns you about fires, and calls for help in the event of an emergency.
The wireless alarm system and its accessories are designed for protected interior spaces (environment class 1) and must be used there only. Make sure that the specified environment conditions are met. If the specified environment conditions are not met, the proper operation of the wireless alarm system and its accessories cannot be guaranteed. Besides false alarms, irreversible damage can be done to components if the environment conditions are not met, even for a short period, leading to a complete failure in individual components or the entire system.
The external wireless sounder and the wireless remote controls are exceptions to the environment class described above. Please note the corresponding environment conditions for these products.

The wireless alarm system cannot prevent burglary, hold-ups, fire or vandalism. When properly installed, it is used for local information and the forwarding of this information by telephone using voice messages.

The wireless alarm system works on a frequency band in the 868MHz frequency range specially protected for alarm systems. This prevents other consumer products such as baby phones disturbing the operation of the wireless alarm system. However, it cannot be excluded that radio transmission is temporarily or permanently interfered with by defective components of other electrical or electronic products such as ventilator fans, antenna boosters, etc. Furthermore, radio transmission can also be interfered with consciously and wantonly from outside. However, the wireless alarm system is capable of detecting and reporting such disturbances when normal radio traffic is no longer ensured.

All accessories of the wireless alarm system work with batteries that have only a limited service life. The system monitors the battery condition of the accessories and reports in advance when the accessory batteries have to be replaced. You should then replace the batteries as soon as possible. The accessories work only as long as there is sufficient power available for proper operation. If this is no longer the case, they automatically go out of operation. A detector in this state can no longer fulfil its function.

The wireless alarm system is supplied with energy from the general power supply network and has standby rechargeable batteries for emergencies. The standby batteries maintain full operation of your wireless alarm system for several hours. However, the system is not designed for permanent battery operation. If there is a longer power failure, the energy of the standby batteries will be used up. The alarm system works only as long as there is sufficient power available for proper operation. If this is no longer the case, it automatically goes out of operation. The functions described are then no longer available.

All information and programming settings are saved in a long-term memory (EEPROM) and are available again following a complete failure of the system (even after several months). When you restart the system, all you have to do is correct the date and time.

Chapter 3 Safety information

For damage caused by non-compliance with these installation instructions, no guarantee claims are possible. No liability can be accepted for resulting damage.
In the case of material or personal damage caused by improper operation or non-compliance with the security notes, no liability or guarantee claim can be accepted.
For security and authorisation reasons (CE), the unauthorised alteration and/or changing of the alarm system and its components is not permitted.

Only a regulation network power socket (230 Volt / 50 Hz or 110Volt / 60Hz) of the public supply network can be used as a power source.

Make sure the alarm system is correctly put into service. Follow these installation instructions carefully to ensure this.

The equipment should be installed and started up by a correspondingly qualified person to ensure the safe operation of this product. When installing the product, make sure the supply power line is not restricted or damaged by sharp edges.

Never install the alarm system near combustible or easily flammable materials such as curtains.
Do not expose the alarm system to high temperatures, strong vibrations or dampness.

Equipment operated with mains electricity should be kept out of the reach of children. For this reason, be particularly careful when children are present.

In commercial institutions, ensure compliance with accident prevention regulations issued by professional bodies responsible for electrical equipment.

Pay special attention to passages marked with an exclamation mark in these instructions. These identify particularly important explanations or safety hints that must be observed.

Chapter 4 Introduction to the ABUS wireless alarm system

Congratulations – you made the right choice! The **ABUS wireless alarm system** offers you professional technology and first-class quality of the specialist for domestic security, packed in a modern, attractive design, and gives you a **great feeling of safety and security** day after day.

First please check the contents of this package for completeness according to the following specifications and contact the vendor immediately in the event of any deviations.

FOR BRIEF INSTRUCTIONS OF STARTING UP THE ABUS WIRELESS ALARM PACKAGE, SEE PAGE 11-88.

Replace defective or missing parts of this equipment with original parts only. You can obtain these from your local dealer.

This chapter answers the following questions:

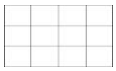
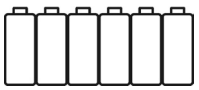
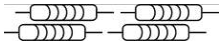
- What is the **ABUS wireless alarm system**?
- What are the functions of the **ABUS wireless alarm system**?
- What are the technical specifications of the **ABUS wireless alarm system**?
- How can the **ABUS wireless alarm system** be extended?

For further advice on using, maintaining and servicing your **ABUS wireless alarm system**, refer to the accompanying user instructions.

If your questions are not answered completely in this or the following chapters, and the user instructions or the installation DVD offer no explanation, please contact your specialist dealer, who has received detailed training and will be happy to advise you.

4.1 Scope of delivery

The **ABUS wireless alarm package** consists of the following components:

Installation and programming instructions	1x	
User guide	1x	
DVD with installation video	1x	
Brief instructions for telephone commands	1x	
Power adapter (according to techn. specifications)	1x	
Rechargeable batteries (according to techn. specifications)	6x	
2.2kOhm resistors	4x	
Screws (4,2 x 32 4x, 2,9 x 13 1x, 2,9 x 6,5 1x)		
Wireless magnet contact, white	1x	
Wireless remote control	1x	
Wireless motion sensor	1x	

4.2 What is the ABUS wireless alarm system?

The **ABUS wireless alarm system** is an alarm system specially designed and developed for house owners and the owners of small to medium commercial objects. The wireless alarm system ensures 24-hour security with the help of the wireless sensors and detectors installed in your property. Depending on your particular version, the **ABUS wireless alarm system** triggers burglar alarms, warns you about fire, and calls for help in the event of household emergencies. The **ABUS wireless alarm system** also has intelligent control functions that can be integrated in modern house management systems, such as EIB. These can also be remote-operated from a distance.

4.3 What are the functions of the ABUS wireless alarm system?

The **ABUS wireless alarm system** provides reliable surveillance. In the event of an alarm triggered by wireless detectors (e.g.: (smoke, magnet, motion sensor), wireless emergency button (e.g.: panic emergency call), or by system faults (e.g.: power failure), the **ABUS wireless alarm system** automatically calls previously programmed telephone numbers and activates local sounders, depending on the alarm.

The **ABUS wireless alarm system** informs and plays previously recorded announcements when called. It then transmits the cause of the alarm (e.g.: fire, emergency) or the system messages (e.g.: power failure, battery fault).

The **ABUS wireless alarm system** keeps you in touch. You can use the integrated microphone and loudspeaker to speak by telephone into the room and also to listen in to what is happening in it. For a control call, you just dial into the **ABUS wireless alarm system**.

The **ABUS wireless alarm system** gives you security since if anything happens, it calls until you or a person defined by you answers the call. The **ABUS wireless alarm system** can react and act remotely. You can activate and deactivate the **ABUS wireless alarm system** with a telephone call. You can also activate the control outputs and program the alarm numbers to any selected destination.

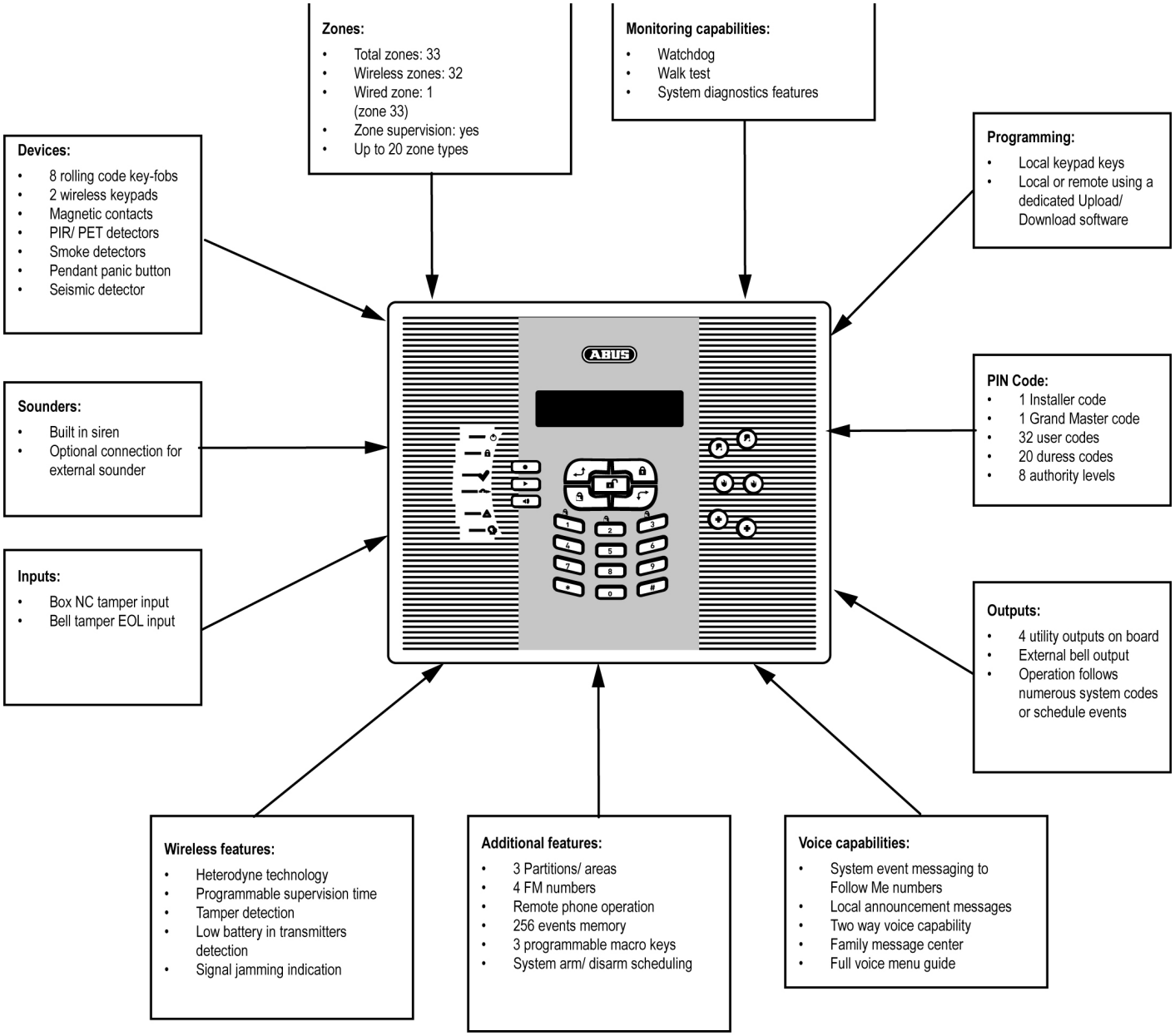
The **ABUS wireless alarm system** is simple to program and operate. The logically designed installation procedure is menu-guided like the user instructions. The user also receives the most important system events as voice output.

4.4 What are the technical specifications of the ABUS wireless alarm system?

Operating voltage:	Primary: 230V AC / 50Hz power adapter Secondary: 9V AC / 50Hz
Power consumption:	Primary: 113mA max. Secondary: 140mA min. / 2000mA max.
Emergency power supply:	6 x 1.2V AA NiCd rechargeable batteries (min. 800mAh) or 6 x 1.5V DC AA alkaline batteries
Control outputs:	2 x relays, max. 3A at 24V DC 2 x transistors, max. 70mA
Voltage output:	1 x 9V DC max. 200mA (constant) 1 x 9V DC max. 500mA (controllable)
Alarm sounder:	1 x internal 90dBA at 1m
Ambient operating temperature:	0°C to +55°C max. air humidity 90% non-condensing
Case material:	ABS
Dimensions:	240 x 190 x 48mm (LxWxH)
Weight:	970g (including batteries)
Dialling mode:	DTMF / CTMF (tone dialling)
Radio immunity:	acc. to EN 50130-4
Radio frequency:	868.65 MHz AM narrow band

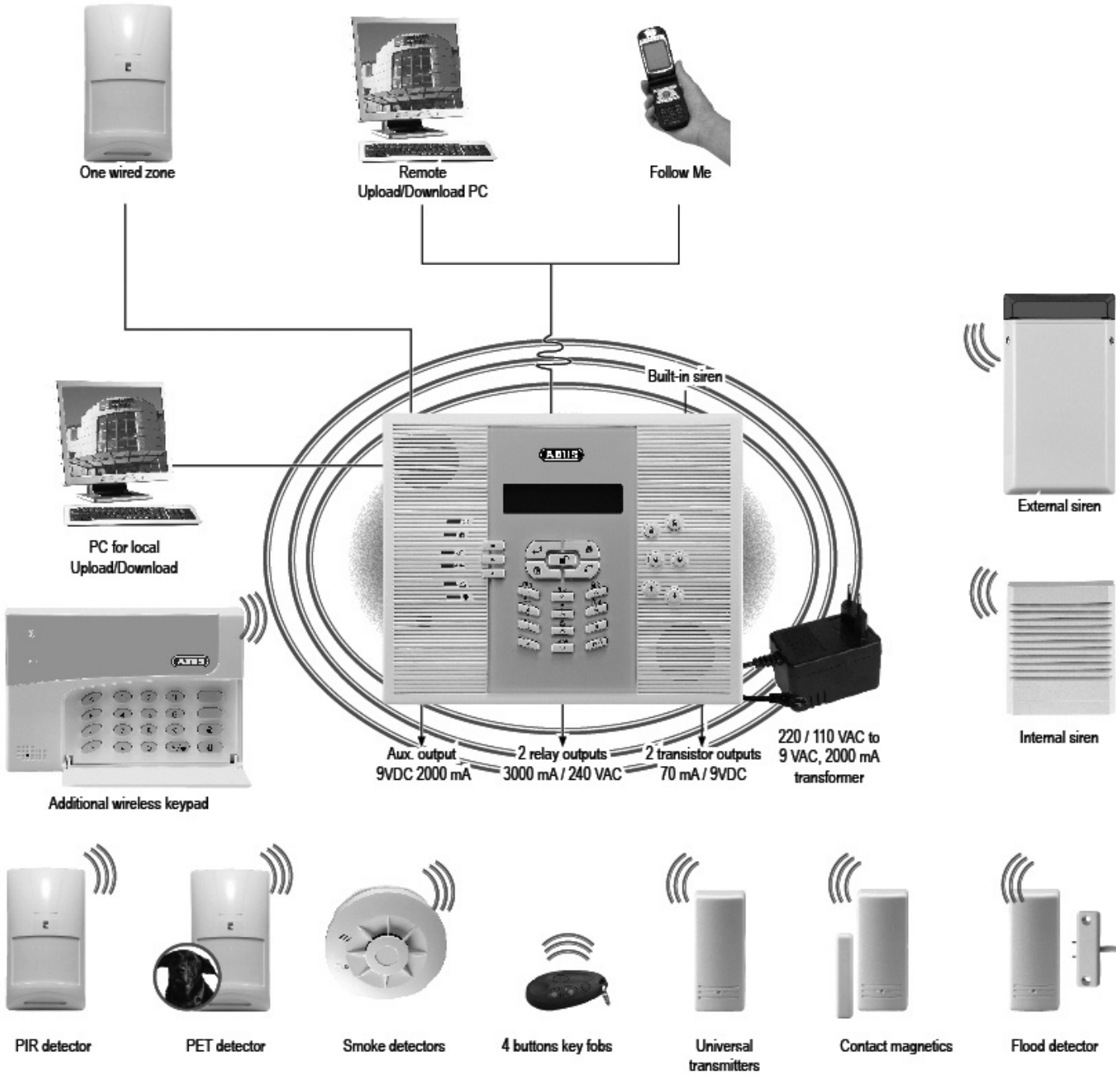
Further licences such as CE, radio and telephone operation are in the manufacturer's possession and can be requested if necessary. Please contact your dealer about this.

The following graphic gives you an overview of further function properties of your **ABUS wireless alarm system**:



4.5 How can the ABUS wireless alarm system be extended?

The **ABUS wireless alarm system** is a modular, extendable security system. The following graphic shows how it can be extended:



4.6 CE manufacturer's declaration

ABUS Group security center

EG – KONFORMITÄTSERKLÄRUNG
EC – DECLARATION OF CONFIRMITY

CE

Wir / We Security-Center GmbH & Co. KG
Linker Kreuthweg 5
86444 Mühlhausen (Germany)

erklären hiermit, dass das Produkt / herewith declares that the product

Typ / Type: **ABUS Funkalarmanlage**
auch benannt / also named: **RWSALV868xxA* (*xx=country code)**
Artikel-Nr. / Article No.: **FU9010**

konform ist mit den Anforderungen und einschlägigen Bestimmungen der

- **Richtlinie 1999/5/EC** des Europäischen Parlaments vom 9. März 1999. Das in Artikel 10 (4) genannte und im Anhang III der Richtlinie beschriebene Verfahren zur Bewertung der Konformität ist eingehalten worden.

complies with the requirements and the provisions of the

- **Directive 1999/5/EC** of the European Parliament and of the council of 9 march 1999 on Radio equipment and Telecommunications Terminal Equipment and the mutual recognition of their conformity and Annex III (Conformity Assessment procedure referred to in article 10 (4)).

Weiterhin erklären wir, dass Teile aus folgenden Normen und Standards zur Anwendung gelangten:
And furthermore declares that the following parts of standards and documents have been applied:
EN60950-1 :2001, EN301 489-3 v.1.4.1 :2002, EN50130-4 :95+A1+A2, EN300220-3 :00, EN300220-1 :00, TBR21 :98, ETSI EG 201121

Ort und Datum der Ausstellung
Place and date of issue **Mühlhausen, 24.04.07**

Name, Funktion und Unterschrift des Befugten
Name, function and signature of
authorised person

Andreas Kupka, Geschäftsführer

Chapter 5 Initial considerations

Before starting to install your new **ABUS wireless alarm system**, please take the time to consider the following. You will find helpful tips for planning your system on the accompanying installation DVD. If you cannot find answers to all your questions, please contact your specialist dealer, who will be pleased to help you. Remember: only a correctly planned and installed alarm system provides maximum security.

This chapter answers the following questions:

- What kinds of security are there?
- What wireless detectors do I need?
- Where do I install the **ABUS wireless alarm system**?
- What is the best installation sequence?

The following graphic shows where to install the different wireless detectors.



5.1 What kinds of security are there?

In general, there are three different ways of securing an object:

External perimeter surveillance, in which primarily the endangered areas such as the entrance door, terrace door and cellar door as well as ground-floor windows are protected by wireless magnet contacts and wireless glass breakage detectors. The next step is to make sure that all other access areas are protected. Unprotected access areas are a security risk since there is no detection using wireless motion sensors inside the object.
*This type of surveillance is particularly recommended for **pet owners** of dogs, cats, etc. since these animals can cause false alarms on interior detectors (motion sensors).*

Internal surveillance (surveillance of certain areas and/or traps), where you monitor only the interior of your object. There is no surveillance of the external perimeter. Protection using wireless motion sensors begins with the areas most likely to be crossed by burglars such as entrances, halls, and living rooms. In the next stage, every room can be protected individually.
Internal surveillance is the **cheapest** type of surveillance, and the burglar may be detected quite late, when he or she is already inside the object.

The combination of these two protection methods, which closes security gaps in the “outer skin” surveillance through the use of interior detectors (wireless motion sensors). The burglar is detected either when entering the object or when moving within the object.
*The combination of these two protection types offers you maximum **security**.*

We recommend the use of wireless smoke detectors since every electrical device in your house represents a potential fire hazard. First of all, the halls and stairways should be protected, with at least one detector per floor. Equally important are areas such as children’s playrooms, bedrooms and living rooms, where each room should have its own detector.
Smoke detectors save lives!

You operate the wireless alarm system either with the remote control provided, a wireless control panel, or a wireless key switch. The system can be controlled directly from the **ABUS wireless alarm system**. The system is also programmed on this keypad. Other features are remote-controlled activation and programming by telephone or remote PC, which will be explained later in these instructions. For more information of operating the wireless alarm system, see the operating instructions and the installation DVD. If in doubt, please contact your specialist dealer.

5.2 What wireless detectors do I need?

The type and number of wireless detectors needed depends partly on the type of protection and partly on the level of security you want to achieve. You should therefore plan your wireless sensors as follows:

- Consider how an intruder can get into your object. It will help if you draw up a plan of your object, or take a walk around, inside and outside the object. Try to imagine what you would do to get into the object. Don't forget to include any aids that may be available. Direct access via the house door or terrace door is not necessarily the fastest. For example, if a ladder is available, a balcony door or an upstairs window will represent a risk.
- If your object already has good mechanical protection systems such as window locks or extra door locks, these will prevent most burglars from getting into the object.
- Burglaries should always be fast, quiet and inconspicuous. Accesses at hidden areas of your object, such as cellar doors or rear windows, are therefore particularly at risk.
- Plan to install at least one smoke detector in your system – in the bedroom – or even better, three smoke detectors – in the bedroom, in the hall, (escape route) and in the living room (large amount of electrical equipment). Smoke detectors in the kitchen or bathroom are unsuitable because of the natural steam and smoke situation there.
- With the help of the requirements listed above and the tips on the installation DVD, make a list of wireless detectors required and divide them into three categories: Absolutely necessary (high hazard risk), important (medium hazard risk) and less important (low hazard risk, other security messages have already been taken, difficult to reach/overcome).
- Buy all the wireless detectors that are absolutely necessary. Since the system is modular, the wireless detectors of the other categories can also be installed later.
- When operating the system, note that you activate and deactivate the system several times a day. The components should therefore be placed where they are as easy as possible to operate and they do not restrict you in your normal day-to-day life.

If you have questions about protecting your property, consult your specialist dealer. To help you in the planning, make a plan or sketch of your object.
The **ABUS wireless alarm system** and its components are designed and developed in such a way that they immediately detect and report possible assaults from outside and tamper attempts. **Better safe than sorry!**

5.3 Where do I install the ABUS wireless alarm system?

The **ABUS wireless alarm system** should be installed in your house near an analogue telephone connector and a 230V power socket – ideally near the centre of the object to ensure good communication with the detectors. You should not install it directly in the entrance area near the entrance door, where it can easily be tampered with. Use a wireless operating panel here.

Note that the **ABUS wireless alarm system** must be installed at a minimum distance of 1m to ceilings and floors to guarantee good radio communication. Furthermore, do not install the **ABUS wireless alarm system** in a cupboard or drawer since the furniture materials would weaken radio reception and you would not hear the voice messages of the system.

On the rear of the equipment there are several openings to enable it to be hung on wall screws. Using the fixing materials provided and a power screwdriver, you can quickly fix the system to the wall. It should be fixed on a flat wall so firmly that the tamper contact on the rear is completely pressed down. If this is not possible, deactivate this contact.

Make sure that the maximum distance between wireless detectors and the **ABUS wireless alarm system** does not exceed 30m in buildings. Note that building materials and other electrical equipment can restrict the radio transmission range. Look out for strongly reinforced ferro-concrete floors and ceilings (e.g., on the ground floor) or electric under-floor heating systems (Faraday cage).

5.4 What is the best installation sequence?

Install and program your **ABUS wireless alarm system** in the order described below. The instructions will guide you step by step through the installation. Programming closes with a test alarm leading to a successful alarm triggering on the system (so long as no communication faults exist).

1. Creating an installation plan
2. Connecting and installing the **ABUS wireless alarm system**.
3. Putting into operation
4. Installer menu and reception check
5. Installing wireless detectors and communication test
6. Programming detector zones
7. Programming alarm reactions
8. Programming announcements and alarm numbers
9. Final settings
10. Activating the system and test alarm

Chapter 6 Installing the ABUS wireless alarm system

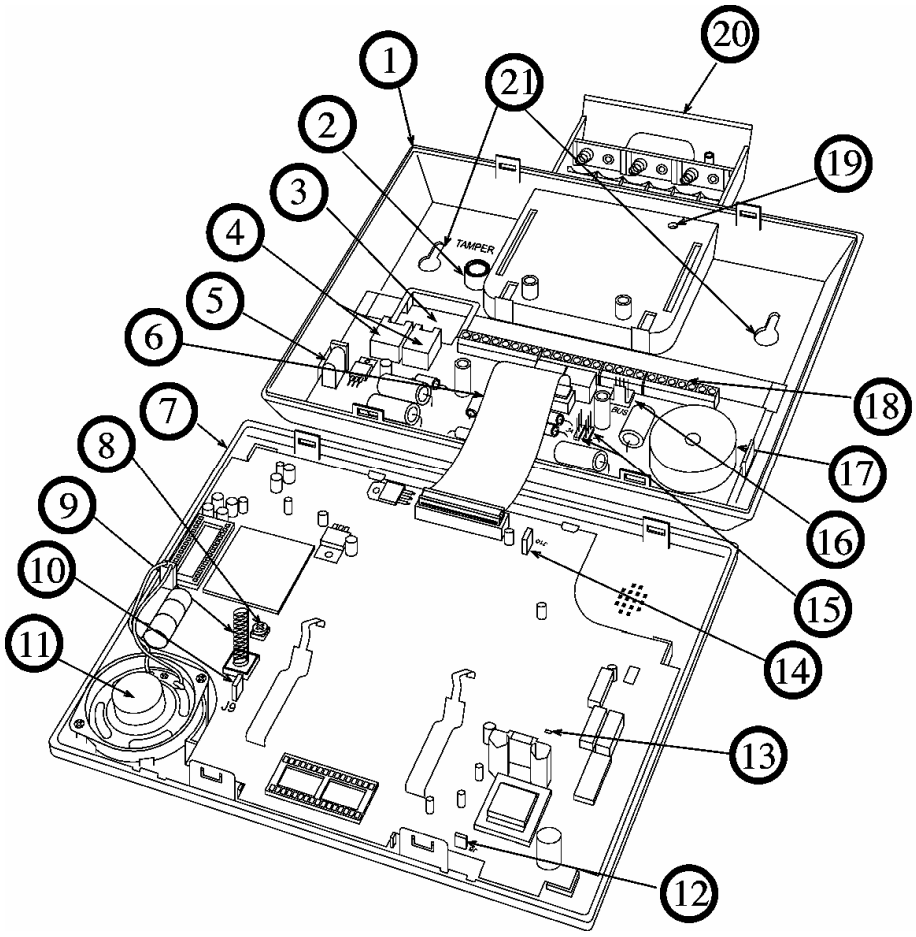
Make a sketch of the object or use the architect's plans. Enter the absolutely necessary wireless detectors defined according to chapter 3. Install the detectors in groups. For example: first magnetic contacts, then motion sensors, then smoke detectors. Or divide your object into areas. For example: living room, kitchen,… or ground floor, cellar,…
Name or number the detectors. For a specimen installation plan, see the end of these instructions. You will need the installation plan again and again in the course of your activities.

This chapter answers the following questions:

- What is what inside the **ABUS wireless alarm system**?
- How do I install the **ABUS wireless alarm system**?
- How do I install the power and telephone connections?
- How do I adjust the contrast of the LCD display?
- How do I connect the other contacts in the **ABUS wireless alarm system**?
- How are the standby batteries used?
- What are the effects of the different jumper settings?

6.1 What is what inside the ABUS wireless alarm system?

The following graphic shows the inner structure of the **ABUS wireless alarm system**.



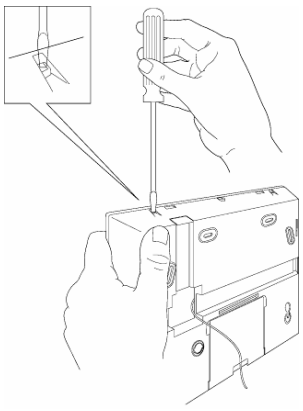
1	Base plate	12	Power voltage reset jumper
2	Case tamper opening	13	LED
3	Cable hole	14	Battery jumper
4	Telephone plug	15	Control output jumper
5	Power IN	16	BUS connection
6	Flat cable	17	Internal sounder/buzzer
7	Faceplate	18	Main connector block
8	LCD light dimmer	19	Battery case screw
9	Tamper spring	20	Battery case
10	System reset jumper	21	Wall fixing
11	Loudspeaker		

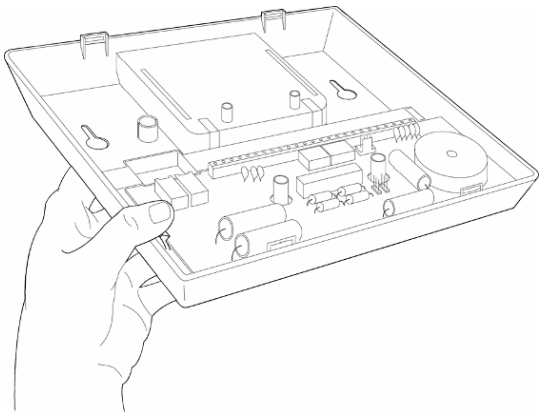
6.2 How do I install the ABUS wireless alarm system?

The **ABUS wireless alarm system** is mounted on the wall in three steps. You need a flat screwdriver to open the casing. A battery-powered screwdriver is best suited for drilling the holes for the fixing screws. You can then use this screwdriver to screw the fixing screws into the wall.
Proceed as follows when installing the **ABUS wireless alarm system**:

6.2.1 Preparing the base plate

- Loosen the casing screw in the middle of the base. When delivered, the case is not yet screwed together.
- Separate the faceplate and the base plate with a flat screwdriver as shown in the graphic.

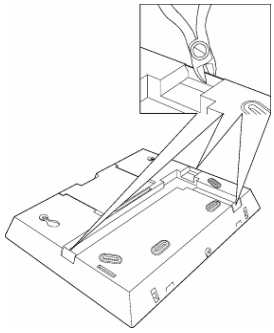


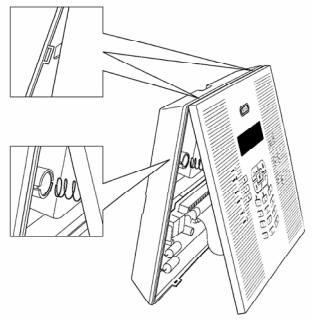


- Carefully fold the faceplate upwards. To avoid destroying the fixing clamps on the top of the faceplate, make sure you do not bend it up more than 45°.
- Now draw the flat cable out of the fixing on the base plate.
  The base plate and the faceplate are now separated. Place the faceplate to one side.
- Now pull the battery lid out of the base plate.
- Carefully fold the fixing clamps for the PC board outwards and pull the PC board out of the base plate.

6.2.2 Assembling the base plate

- The base plate can now be used as a drill template for marking the drill holes. 6 different drill holes are provided. At least 4 have to be used to enable stable mounting of the **ABUS wireless alarm system** on the wall.
  Never drill the holes through the base plate since this could destroy the plastic of the base plate. Remove the PC board so that you can mark the drill holes.
- Drill the holes and insert wall plugs if necessary. Fix the base plate to the wall using M4 screws at least 35mm long.
- Before screwing the base plate to the wall, remove the cable openings for telephone and power cables with side-cutting pliers (see sketch). *This is not necessary if the cabling is fed through the back wall.*





- Adjust the lid contact (tamper) according to the triggering behaviour you require: The tamper contact is on the rear of the base plate.
  Box only – A tamper alarm is triggered only if the case is opened.
  Box and Wall – A tamper alarm is triggered if the case is opened or removed from the wall. *Select the Box and Wall setting if the system is installed on a wall.*
- Guide the power and telephone cables into the case. Remember that you may want to incorporate control cables, and then fix the base plate firmly to the wall using the screws provided.
- Replace the PC board.

6.2.3 Fixing the faceplate

Before fixing the faceplate, first read the following sections (up to page 5-20) and then return here. The preceding sections are not needed for every installation.
When carrying out the following, make sure that the voltage is disconnected for all connection work. ***Both the power adapter and the standby batteries must be disconnected.***

Before fixing the faceplate, the following installation work should be complete.

- Telephone and power are connected to the PCB of the base plate (section 5.3).
- All connection work for additional control cables is completed on the PCB of the base plate (section 5.5).
- The brightness is adjusted (section 5.4).
- All jumpers are plugged in according to the desired function (section 5.7).

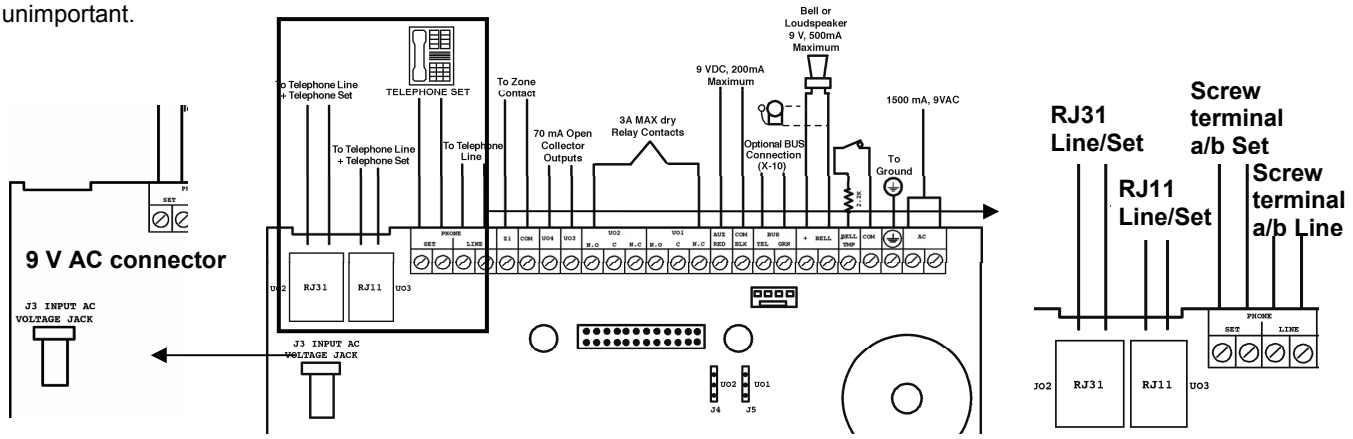
When all these jobs are completed, replace the faceplate and screw it tight. Proceed as follows:

- Connect the flat cable of the faceplate to the base plate.
- Insert the temper spring into the casing for the tamper opening and clip the faceplate from above into the base plate.
- Fold the faceplate down until it clicks audibly into the base plate.
- Screw the case together from below using the screw provided.

The ***ABUS wireless alarm system*** *is now ready for the following installation steps described in chapter 6.*

6.3 How do I install the power and telephone connections?

The **ABUS wireless alarm system** is powered by a 230V AC power adapter with 9V AC. In this step, make sure only the secondary power adapter plug is plugged into the base plate (see number 5 on page 5-14: What is what inside the **ABUS wireless alarm system**?). The power adapter plug must never be plugged into the mains socket. The socket for the power adapter is on the PCB in the base plate.
Alternatively, the power adapter plug can be connected directly to the base plate after the plug has been removed. The polarity is unimportant.



For the telephone connection, you can use either an RJ45 plug or an RJ11 plug. The two analogue telephone cables a and b can also be connected to the screw clamp as shown in the graphic. Here too, the polarity is unimportant. One or more telephone terminal devices can be connected, but they must be connected after the **ABUS wireless alarm system**. The reason: In the event of an alarm, the system separates the connection to any series-connected telephone terminal devices and then uses this telephone connection exclusively for transmitting the alarm message (blockade switching). In this way, you prevent a “busy” telephone from blocking the line in the event of an alarm. To connect your telephone terminal devices to the system, see the above sketch. The cables of your telephone line must be connected to the **Line** connector of the **ABUS wireless alarm system**. Connect the cables of your telephone or PBX to the **Set** connector.

6.4 How do I adjust the contrast of the LCD display?

The **ABUS wireless alarm system** has a dimmer for adjusting the brightness and contrast of the LCD display. You should make adjustments after plugging into the power supply and before replacing the faceplate on the base plate.
To make this setting, turn the LCD light dimmer (see number 8 on page 5-14: What is what inside the ABUS wireless alarm system?) carefully with a small flat screwdriver until you have set the right brightness.

6.5 How do I connect the other contacts in the ABUS wireless alarm system?

6.5.1 Connecting a wired sounder

The **ABUS wireless alarm system** is fitted with a built-in sounder. If required, an external sounder or piezo sounder can be connected to alert inhabitants and neighbours with a loud signal during the alarm.

To connect an external sounder:

- Connect the external cables to the sounder clamps (+ Bell) (Bell -). Make sure that the polarity is correct if you are connecting an electronic sounder and/or polarised sounders.
- Select the sound signal to be generated (see chapter 8, page 8-29, **Quick Key [1][2][32]** in the installer menu) for each sounder.
- For a loudspeaker or built-in sounder driver, the **ABUS wireless alarm system** generates a continuous or interrupted oscillating voltage.
- For a sounder or electrical sounder, the **ABUS wireless alarm system** generates a continuous 9V DC or a slow pulsing voltage, depending on the alarm type. Use a sounder with a maximum power consumption of 9V 500mA.

⚠ **WARNING:**

To avoid interference to the external sounder loop if **no** connection is made to the sounder clamps, connect one of the 2.2 kΩ resistors supplied between the (+ Bell) and (Bell -) terminals.

NOTE:

It is very important to define the menu item **Sounder / LS** in the installer menu correctly. The setting depends on the type of sounder. You normally select the **Sounder** setting.

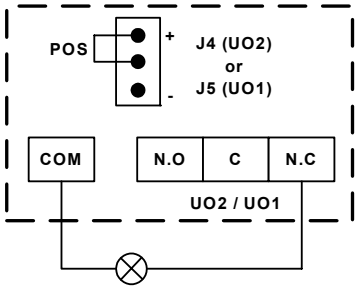
If the sounder output is overloaded (max. 500 mA) and it is silenced, you have to interrupt the load at the output for at least 10 seconds before reconnecting a load to the output. The circuit-breaker is then reset.

6.5.2 Sounder tamper

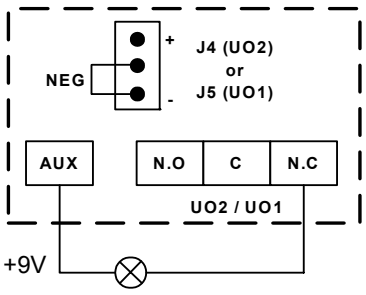
If a sounder tamper contact is fitted, connect the tamper contact of your (wired) sounder with the tamper input on the PC board of the **ABUS wireless alarm system** (Bell TMP / COM). This line is protected from tampering by a 2.2 kΩ resistor. This should be connected in series to the contact inside the sounder housing.
*The tamper input is monitored only if the setting in the installer menu is set to "Yes" under "External Device" (**Quick Key [1] [2] [31] in the installer menu**). For more information, see [1] [2] [31].*

6.5.3 Controllable relay and transistor outputs

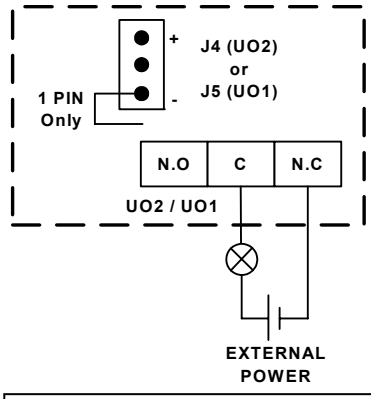
Your **ABUS wireless alarm system** has 4 controllable outputs (2 x 24V DC 3A relays potential-free or 13.8V 200mA and 2 x 13.8V DC 70mA transistors). These outputs are activated according to system events. For example alarms, system faults, specific zone and partition events, but also user-controlled or time-controlled.
Connect switch outputs **UO1** (switch output 1) and **UO2** (switch output 2) as follows:



Positive: Connect the collective clamp "COM/BLK" and N.C (9V from NC) with an external device you want to control via this switch output. Take note of jumper J4 (for UO2) and J5 (for UO1). (See number 15 on page 5-14: What is what inside the system?)



Negative: Connect the collective clamp "AUX/RED" and N.C (9V from AUX) with an external device you want to control via this switch output. Take note of jumper J4 (for UO2) and J5 (for UO1). (See number 15 on page 5-14: What is what inside the system?)



Potential-free: Connect clamps c and N.C with an external power supply and an external device you want to control via this switch output. Take note of jumper J4 (for UO2) and J5 (for UO1). (See number 15 on page 5-14: What is what inside the system?)

NOTE:

1. You can connect external equipment to clamp **N.O** instead of to clamp **N.C**.

   If you connect to clamp NC (normally closed), the circuit between the system and an external device is closed. If the switch output is activated, the system interrupts the circuit and the connected device is switched off.

   If you connect to clamp NO (normally open), the circuit between the system and an external device is interrupted. If the switch output is activated, the system closes the circuit and the connected device is switched on.

2. The "COM/BLK" and "AUX/RED" clamps are collective clamps. You can connect more than one cable to them.

Connect transistor outputs **UO3** (switch output 3) and **UO4** (switch output 4) as follows:
Connect the positive connector of the external device you want to control with "**AUX /RED**" **(+)** clamp and the negative with the clamp of the switch output UO3 (or UO4).

6.5.4 Connecting a device ground

The grounding (earth) protects your electronic equipment against damage and interference caused by lightning and inductive voltages.
An ideal grounding is the earth connection (green/yellow wire) in the power socket.
Important: Never connect 230V directly to the system. Only the earth!

Connecting to ground:

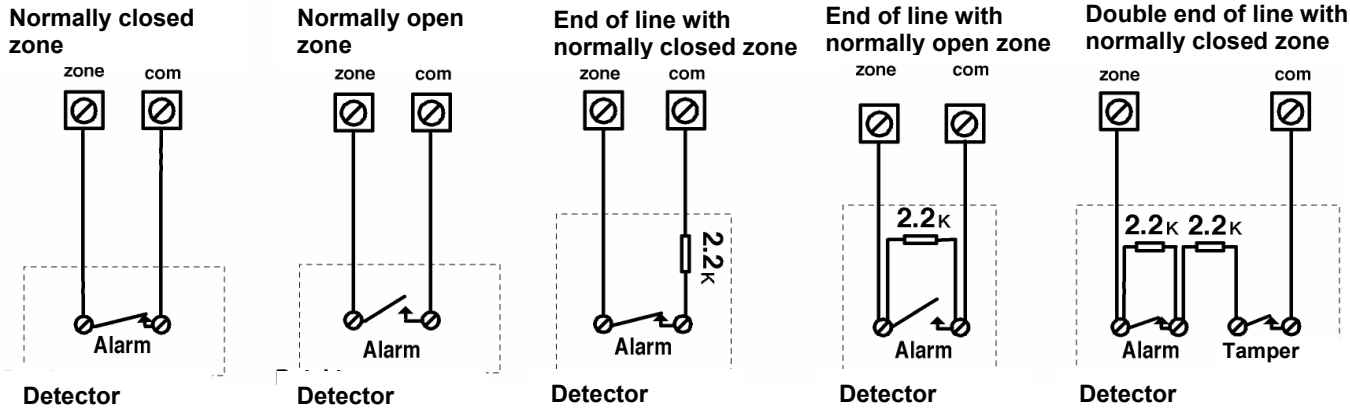
- Make a connection between the earth contact of the **ABUS wireless alarm system** and an electrical earth connection to protect it against lightning and static electricity.

IMPORTANT NOTE:

The earth contact must be made in accordance with local regulations.

6.5.5 Connecting a wired zone

The **ABUS wireless alarm system** has a wired zone – *Zone 33 (Z33)*, which can be used, for example, to connect a key switch or a panic emergency call. Connect this zone using twisted-pair cables or a 4-core cable. The following figure shows the different zone connection types – these have to be programmed accordingly in the installer menu later:



NOTE:

The wired zone cannot be used as a fire zone. For a zone with tamper, you can use a double terminal resistor (DEOL) to save additional connections.

6.5.6 Connecting an external consumer

Use the collective clamps **AUX/Red (+)** and **COM BLK (-)**, to connect external devices or detectors that require a power supply of 9V DC with a maximum power consumption of 200mA.

IMPORTANT:

During a power failure, the AUX output is deactivated to ensure a longer system runtime.

NOTES:

The total current of collective clamps should not exceed 200mA.

If the collective output is overloaded (more than 200 mA) and it is silenced, you have to interrupt the load at the output for at least 10 seconds before reconnecting a load to the collective output.

6.6 How are the standby batteries used?

The **ABUS alarm system** is equipped with 6 standby batteries that maintain operation during a power failure. There are two types of battery:

- **Rechargeable**: Size AA, 1.2 V DC cells
- **Not rechargeable**: Size AA, 1.5 V DC alkaline

⚠ **IMPORTANT NOTE:**

The batteries supplied by Security-Center are rechargeable Nickel Cadmium cells with 1.2 V 800m AAA batteries. Do not attempt to use a different type of rechargeable battery. If you do not conform with the above instructions, your equipment may suffer damage.

⚠ **CAUTION:**

If you use rechargeable batteries, make sure that jumper **J10** is placed on its **TWO** pins (see also page 6-20). If you do not conform to the above instructions, persons may be injured or your equipment may suffer damage.

Inserting the batteries:

Pull out the battery case of the **ABUS wireless alarm system**.

1. Place the 6 batteries supplied in the case. Check the polarity as shown on the case.
2. Push the battery case back in.
3. Secure the case with the lockable screw (if necessary).
4. After making all connections, plug the power supply unit in the mains socket.

NOTE:

Recharge the batteries for at least 12 hours to ensure that they are fully charged. The “weak battery” indication should then disappear within 4 minutes.

IMPORTANT:

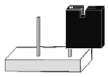
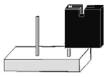
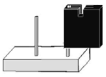
CAUTION: When replacing batteries, make sure you use the same type. If you do not conform to the above instructions, persons may be injured or your equipment may suffer damage.

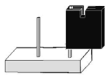
Replacing a rechargeable battery by a non-rechargeable battery can lead to damage unless you first replace the jumper (J10) inside the **ABUS wireless alarm system**. For further details, see page 5-20: What are the effects of the different jumper settings?

Dispose of used batteries according to relevant regulations.

6.7 What are the effects of the different jumper settings?

The PC board of the **ABUS wireless alarm system** is fitted with internal jumpers. Configure the jumpers according to the function required as shown in this table:

Jumpers on the mainboard	Position	Function
Restores the factory settings. (J9)		The **J9** jumper of the **ABUS wireless alarm system** is used for restoring the default factory settings of your alarm system. To restore the factory settings, plug the jumper plug on to both pins of the jumper. Switch off all electricity to the system and wait at least 10 seconds. Reconnect the power supply. The factory settings are restored. You can then take off the jumper plug and plug it on to one pin. **IMPORTANT: Restoring the factory settings is possible only if it was enabled in the installer menu.**
	 **(Default)**	The default position of the jumper plug
Rechargeable battery (J10)		Jumper **J10** of the **ABUS wireless alarm system** is used for selecting between rechargeable batteries and normal batteries. If the jumper plug is plugged on to both pins, the batteries are recharged. **IMPORTANT: As this is not the factory settings, this jumper position must be changed.**
	 **(Default)**	Use this setting for batteries that cannot be recharged.
Battery protection (J6)		Jumper J6 of the ABUS wireless alarm system activates/deactivates the battery discharge protection. If the jumper plug is placed on to one pin, your alarm system switches off automatically if the battery voltage falls below 6.3V DC to avoid excess discharge. **NOTE:** With this setting, your alarm system first starts to operate when power is available from the power supply unit.
	 **(Default)**	The battery discharge protection is deactivated, i.e., the battery can be completely discharged if there is a mains power failure, so that the batteries have to be replaced. **NOTE:** With this setting, alarm system first starts to operate when the batteries are inserted.

Jumpers on the base plate	Position	Function
SA 1 (J5) **or** **SA 2 (J5)**		Defines the function of switch output 1 and switch output 2, as described in the section “wired utility outputs” on page 5-17. Default: **POSITIVE**

Chapter 7 Programming the ABUS wireless alarm system

There are several ways of programming your **ABUS wireless alarm system**:

- At the alarm system using the keypad
- At the alarm system using the PC software
- Remotely, using a telephone link and PC software

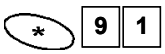
Chapter 8 Settings in installer menu

This chapter describes the options and features of the installer menu of your **ABUS wireless alarm system**. The following is an overview of the main menu options according to their sequence in the installer menu:

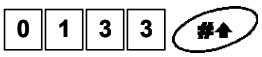
1 **System**, page 8-22
2 **Zones**, page 8-36
3 **Outputs**, page 8-48
4 **Codes**, page 8-54
5 **Dialer**, page 8-60
6 **Not active**
7 **Key-fobs**, page 8-68
8 **Keypads**, page 8-71
9 **Sounder**, page 8-71
0 **Exit**, page 8-72

8.1 Introduction to installer menu

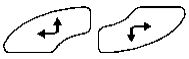
The following pages describe the menu options for programming using the buttons of your **ABUS wireless alarm system**. For programming the **ABUS wireless alarm system** with the Downloader Software, see the separate software instructions.
To access the installer menu, deactivate the **ABUS wireless alarm system**, press the star button followed by 9, followed by 1.



You are asked to enter the installer code for the installer menu. If this has not been changed from the factory default, it is **0133**. Enter this code and confirm by pressing the lozenge button.



You are now in the installer menu.

You can reach the items of the installer menu by scrolling with the  buttons. When you reach the required menu option, confirm by pressing . To exit a menu option, press . It is faster if you use the Quick-Key function. You simply enter the digits assigned to the menu option, e.g.: for menu option **111** (stands for **Entry delay**), press 1 1 1. Return to the main menu by pressing  three times.

These instructions are shown in columns, explained in the following table:

Column header	Description
Quick-Key	The Quick-Key function is a button sequence to be pressed to reach a menu option directly. It is listed in numerical order.
Parameter	Name and explanation of the menu option to be programmed.
Default	The default factory values. The selected values are suitable for most standard applications.
Range	The options you can select for the menu item.

8.2 [1] System

Under **System**, you make settings that affect the entire system. This is an overview of the menu options according to their sequence in the **System** menu:

[1][1] **Timers**, page 8-22
[1][2] **Control**, page 8-23
[1][3] **Receiver**, page 8-30
[1][4] **Clock**, page 8-31
[1][5] **Labels**, page 8-32
[1][6] **Tamper Sound**, page 8-34
[1][7] **Default jumper**, page **Fehler! Textmarke nicht definiert.**
[1][8] **Service Information**, page 8-35
[1][9] **Version**, page 8-35

To access the System menu option:

In the installer menu, press [1] or press ↵ or ↵ until you find the number of the **[1] System** menu option. Then press #▲. The first submenu (**Timers**) appears on the display:



You are now in the System menu and can access the submenus, as described in the following sections.

8.2.1 [1][1] Timers

Under **Timers**, you can make settings for delay times and alarm duration times.

To access the Timers menu option:

1. Select the main menu System as described above.
2. In the System menu, press [1] to get to the **Timers** menu option. You see the following on the display:



3. Select and configure the settings as follows:

Timers:

Quick-Key	Parameter	Default	Range
[1][1][1]	**Exit/Entry Delay 1**		
	Exit and entry delay times of Group 1. The **exit delay time** specifies how long you have to leave the protected area after activating the system. The **entry delay time** specifies how long you have to deactivate the system after entering a protected area. For more information, see the **Zones** menu option. To make settings for the delay times of Group 1, confirm this menu option with #▲, or use the Quick-Key option.		
[1][1][1][1]	**Entry delay 1**	**30 seconds**	1-255 seconds
	Entry delay time for Group 1.		
[1][1][1][2]	**Exit delay 1**	**30 seconds**	1-255 seconds
	Exit delay time for Group 1.		

Timers:

Quick-Key	Parameter	Default	Range
1 1 2	**Exit/Entry delay 2**		
	Exit and entry delay times of Group 2. Make these settings as for Group 1.		
1 1 2 1	**Entry delay 2**	**45 seconds**	1-255 seconds
	Entry delay time for Group 2.		
1 1 2 2	**Exit delay 2**	**45 seconds**	1-255 seconds
	Exit delay time for Group 2.		
1 1 3	**Bell Timeout**	**03 minutes**	01-90 minutes
	Duration of external sounder(s) during an alarm **NOTE:** In some countries, the duration of the external sounder must be limited to 3 minutes. Check the regulations for your country.		
1 1 4	**Bell Delay**	**00 minutes**	00-90 minutes
	Defines the delay between the detection of the alarm situation and sounding the alert on the sounder (of the system or the external sounder). A sounder delay is particularly useful if an alarm was first triggered by telephone without the burglar noticing it.		
1 1 5	**AC Off Delay Time**	**30 minutes**	0-255 minutes
	In the event of a power failure, this menu option defines the delay time (0-255 minutes) before the event is reported or before the switch output is activated.		
1 1 6	**Phone Line Cut Delay**	**05 minutes**	01-20 minutes
	In the event of a telephone line fault, this menu option defines the delay time before the event is reported or before the switch output is activated.		
1 1 7	**Confirm Time Window**	**30 minutes**	30-60 minutes
	In the event of an alarm, the system waits for the defined time. If another alarm occurs within the set time, it is transmitted by telephone as a confirmed alarm.		
1 1 8	**Start Confirmation**	**000 minutes**	000-120 minutes
	Following system activation, the system waits the set time. If an alarm occurs within the set time, this alarm is not transmitted by telephone. This prevents transmission of a false alarm if there are still persons present in the object.		
1 1 9	**Accessory Superv. time**	**255 minutes**	000-255 minutes
	Defines the monitoring time for accessories such as interior and exterior wired sounders. To avoid false alarms, make sure that the monitoring time of the receiver (menu item 1 3 3) is longer than the monitoring time for accessories.		

8.2.2 [1] [2] System Control

Under **System Control**, you make settings that control specific functions of the complete system.

NOTE:

Under this menu item, it is important that you press the lozenge button [#] before exiting so that your data is saved. If you exit the menu by pressing [*], your settings are lost.

To access the System Control menu option:

1. Select the main menu **System** as described on page 8-22.
2. In the **System** menu, press [2] to get to **System Conrol**. You see the following on the display:



3. Select and configure the settings in the **System Control** menu as follows:

System Control:

Quick-Key	Parameter	Default	Range
[1] [2] [01]	**Quick arm**	**YES**	YES/NO
	YES: No user PIN is necessary for activating the system or an area.		
	NO: A user PIN is necessary for activating the system or an area. Choose this setting if the alarm system or an operating panel is accessible to the public or to children.		
[1] [2] [02]	**Quick UO**	**YES**	YES/NO
	YES: A user can activate a switch output without a user PIN.		
	NO: A user PIN is necessary to activate a switch output.		
[1] [2] [03]	**Allow Bypass**	**YES**	YES/NO
	YES: A zone can be omitted (excluded from surveillance) by an authorised user.		
	NO: Omitting zones from surveillance is not possible.		
[1] [2] [04]	**Quick Bypass**	**NO**	YES/NO
	YES: No user PIN is required for omitting a zone.		
	NO: A user PIN is required for omitting a zone.		
[1] [2] [05]	**False Code Trouble**	**YES**	YES/NO
	YES: If an incorrect user PIN is entered three times, the operating panel is locked and, if programmed, an alarm is sent by telephone. Bad PIN input is displayed as a fault on the operating panel.		
	NO: If an incorrect user PIN is entered three times, the operating panel is locked and a local alarm is sounded.		

System Control:

Quick-Key	Parameter	Default	Range
1 2 06	**Bell Squawk**	**YES**	YES/NO

YES: The following signals are emitted by the external sounder to acknowledge whether you have successfully activated/deactivated the system:

- One tone means that the system is activated.
- Two tones mean that the system is deactivated.
- Four tones mean that the system is deactivated following an alarm.

NO: No confirmation is made by the sounder.

1 2 07	**Bell 30/10**	**NO**	YES/NO

YES: The sounders interrupt the alarm tone for 10 seconds every 30 seconds.

NO: The sounders emit continuous alarm tones without interruption.

1 2 08	**Phone Cut Alarm**	**NO**	YES/NO

YES: Monitors the telephone line and activates the sounder if the telephone line is cut for the period defined under **Phone Line Cut Delay Time.** (See also *Phone Line Cut Delay time* on page 8-23.)

NO: The telephone line is not monitored and there is no alarm.

1 2 09	**3 Minute Bypass**	**YES**	YES/NO

YES: After the system has been supplied with power, zones are automatically omitted for 3 minutes to give detectors a chance to stabilise.

NO: The zones are monitored as soon as the system is activated.

1 2 10	**Audible Panic**	**NO**	YES/NO

YES: In the event of a panic alarm, an audible alarm is issued.

NO: In the event of a panic alarm, it is transmitted by telephone. The system does not trigger any audible alarms locally.

1 2 11	**Buzzer → Bell**	**NO**	YES/NO

YES: If the system is activated internally and an alarm is triggered, an alarm is sounded for 15 seconds on the operating panels before the system activates the external sounders and the alarm is transmitted by telephone.

NO: If the system is activated internally and an alarm is triggered, the external sounders and the telephone line are activated immediately.

1 2 12	**Fire Temporal Pattern**	**YES**	YES/NO

YES: The fire signals of the internal and external sounders are three increasing alarm tones followed by a pause.

NO: The fire signals of the internal and external sounders are two seconds of continuous tone followed by two seconds' pause.

1 2 13	**Code Grand Master**	**NO**	YES/NO

YES: Only a user with **Grand Master** authority can change user PINs and the time and date.

NO: Users at the **Master** and **Manager** level can also change user PINs and the time and date.

System Control:

Quick-Key	Parameter	Default	Range
1 2 14	**Audible Jamming**	**NO**	YES/NO

Refers to **Jamming Time**, which is described on page 8-31.

YES: If the defined jamming time is reached, the **ABUS wireless alarm system** activates the sounders. (See *Jamming Trouble*, page 7-32.)

NO: Jamming does not trigger an audible alarm.

Quick-Key	Parameter	Default	Range
1 2 15	**Technician Tamper**	**NO**	YES/NO

YES: The program PIN is required for resetting a tamper alarm. First, the OK message must be received from the detector or the tamper zone must be closed.

NO: A tamper alarm is reset with the OK message of the detector or when the tamper zone is closed.

Quick-Key	Parameter	Default	Range
1 2 16	**Technician Reset**	**NO**	YES/NO

YES: Following an alarm, the program PIN must be entered to be able to reactivate the system.

NOTE:

Before the Ready LED can light up, all zones in this area must be closed.

NO: The alarm system can be activated immediately following an alarm if all zones are closed and the Ready LED is on.

Quick-Key	Parameter	Default	Range
1 2 17	**Abort Alarm**	**YES**	YES/NO

(No function in this version of the alarm system.)

YES: Following entry of a valid user code, an alarm can be aborted within 90 seconds and reported as a false alarm to the command centre.

NO: If an alarm is triggered, forwarding cannot be stopped.

Quick-Key	Parameter	Default	Range
1 2 18	**Summer/Winter Clock**	**YES**	YES/NO

YES: The **ABUS wireless alarm system** automatically puts its clock forward one hour forward in spring (last Sunday in March) and one hour back in autumn (last Sunday in October).

NO: No automatic time adjustment

Quick-Key	Parameter	Default	Range
1 2 19	**Forced Keyswitch Arming**	**YES**	YES/NO

YES: If the system or an area is activated by a key-switch, all open zones are automatically omitted from monitoring. The remaining zones are monitored. The system/area is monitored in every case.

NO: The system/area can be activated only if all zones are closed and the system/area is ready for activation.

Quick-Key	Parameter	Default	Range
1 2 20	**Pager**	**NO**	YES/NO

Enables alphanumeric output of system events on a pager. The number of the pager must be programmed like a Follow-Me number.

YES: For the activated/deactivated event and the alarm event, the system sends information to the pager.

NO: The system transmits no events to pagers.

System Control:

Quick-Key	Parameter	Default	Range
1 2 21	**Arm Pre-Warning**	**NO**	YES/NO
	YES: For the system, or every area for which an automatic activation function was programmed, a warning signal of 255 seconds is generated on the operating panels and the alarm system prior to activation. During this countdown, you can enter a valid user code to delay automatic activation of the system/area by 45 minutes. If activation of the system/area is delayed in this way, automatic activation of the system is deactivated on the following days. The 255-second warning does not apply to automatic internal activation.		
	NO: The system/area for which an automatic activation function is programmed is activated automatically every day, regardless of whether automatic activation is delayed or not.		
1 2 22	**Low Battery Arm**	**YES**	YES/NO
	YES: The system can be activated even if the standby batteries are not fully charged or inserted.		
	NO: The system cannot be activated in the event of a battery fault.		
1 2 23	**Eng. Tamper**	**YES**	YES/NO
	YES: The system cannot be activated following a tamper alarm. The program PIN first has to be entered.		
	NO: The system can be reactivated following a tamper alarm without the entry of the program PIN.		
1 2 24	**Blank Display**	**NO**	YES/NO
	YES: In operation mode, the LCD display is switched off for one minute after the last input. To reactivate the display, a valid user PIN must be entered.		
	NO: The LCD display is always on.		
1 2 25	**24 Hour Bypass**	**NO**	YES/NO
	YES: A user can omit a 24-hour zone.		
	NO: A user cannot omit a 24-hour zone.		

System Control:

Quick-Key	Parameter	Default	Range
1 2 26	**IMQ Install**	**NO**	YES/NO

YES: If a zone is open when the system is activated, the system is activated but an alarm is generated when the exit delay time expires.

NO: Open zones are automatically omitted following expiry of the exit delay time.

Quick-Key	Parameter	Default	Range
1 2 27	**Grand Master Authority/Partition**	**NO**	YES/NO

YES: Areas and authority levels can be changed by the installer in the installer menu and in the user menu using a Grand Master pin.

NO: Areas and authority levels can only be changed by the installer in the installer menu.

Quick-Key	Parameter	Default	Range
1 2 28	**Disarm Stop FM**	**YES**	YES/NO

YES: Forwarding of calls is stopped when the system is deactivated.

NO: Forwarding of calls is continued even if the system is deactivated.

Notes

If a block lock is used, you can deactivate the system **only** if the block lock is opened.

However, if the system is deactivated by telephone, the calls are continued.

Quick-Key	Parameter	Default	Range
1 2 29	**Global Follower**	**NO**	YES/NO

YES: Specifies that all zones (that are programmed to follow an exit/entry delay time) follow the exit/entry delay time of ALL activated areas – i.e., that the system is not activated until after expiry of the longest exit delay time.

NO: Specifies that all zones (that are programmed to follow an exit/entry delay time) will only follow an exit/entry delay time of the area for which they are defined.

Quick-Key	Parameter	Default	Range
1 2 30	**Area**	**NO**	YES/NO

Changes the function of the system as follows:

YES: A zone assigned to more than one area is not monitored until all areas are activated, and it continues to be monitored until **all** areas are deactivated.

NO: A zone assigned to more than one area is not monitored until all areas are activated, and it continues to be monitored until **one** area is deactivated.

System Control:

Quick-Key	Parameter	Default	Range
1 2 31	**External Bell**	**NO**	YES/NO

YES: Select this setting if an external sounder is connected to the wireless alarm system. The ABUS wireless alarm system monitors the (+) (-) connections as well as BELL TMP and COM and reports faults, events, alarms and reports. To avoid a fault in the signalling device if no sounder is connected, insert a 2.2 KΩ resistor instead.

To avoid a tamper alarm when no connection exists to the BELL TMP COM stations, use a 2.2 KΩ resistor instead.

NO: Select this setting if no external, wired sounder is connected to the ABUS wireless alarm system. The (+) (-) connections as well as BELL TMP and COM are not monitored.

Quick-Key	Parameter	Default	Range
1 2 32	**Loudspeaker-No / Bell-Yes**	**NO**	YES/NO

YES: (For a signalling device or electrical sounder) A 9 V DC voltage is generated on the sounder connection during a burglar alarm or a panic alarm. A low pulse voltage is generated during a fire alarm.

NO: (For a loudspeaker with no built-in driver for sounders) The ABUS wireless alarm system generates a continuously fluctuating pulse voltage for burglar and panic alarms and an interrupted fluctuating pulse voltage for fire alarms.

Quick-Key	Parameter	Default	Range
1 2 35	**SRN Pre-alr**	**NO**	YES/NO

An important security aspect for your security system if you have fitted internal and external sounders.

YES: At the start of the entry delay time, the system sends a signal to the trained sounders. If no second signal is sent to the sounder following expiry of the delay time (since the system may have been destroyed or tampered with), the sounders trigger an alarm.

NO: The function is deactivated. The sounders start to sound an alarm when addressed by the system.

8.2.3 1 3 Receiver

Under **Receiver**, you can make settings that control the radio receiver of your **ABUS wireless alarm system**.

To access the Receivers menu option:

1. Select the main menu System as described on page 8-22.
2. In the System menu, press 3 to go to the **Receivers** menu option. You see the following on the display:



3. Select and configure the settings in the Funkmakros??? menu as follows:

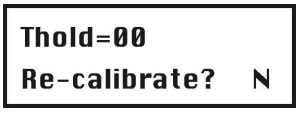
Receiver:

Quick-Key	Parameter	Default	Range
1 3 1	**Calibration**		

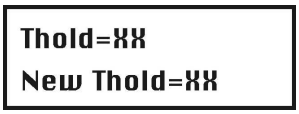
During calibration, the radio receiver measures the level of the electromagnetic background noise. The lower the level, the better the selected installation location. Additionally, the level set decides the strength of the electromagnetic field above which the alarm system interprets this as a conscious tamper attempt.

Range of level: **00-99.**

1. Press 1. The following appears on the display and specifies the current level:



To conduct a new automatic measurement, press  and select **[Y] YES**.
After measurement is complete, the new level is displayed as follows:



To confirm the new level, press 

OR:

to change the level manually, enter the desired level and press .

NOTES:

To ensure that a measured low value (due to the environment) does not trigger a fault alarm in later operation, you can set the level higher as the measured value. Never reduce the measured level, since this will lead to a fault alarm in later operation.

Receiver:

Quick-Key	Parameter	Default	Range
1 3 2	**Jamming Time**	**No Jamming detection**	None, 10, 20 or 30 seconds

The jamming time specifies the time within one minute in which the level of the background noise can be above the value measured under “Calibration” (or above the manually set value).

NOTE:

A fault is displayed only if the “Audible Jamming” option was enabled in the system control.

Quick-Key	Parameter	Default	Range
1 3 3	**Supervisory Time**	**0 hours**	0-7 hours

The wireless detectors automatically send a message to the **ABUS wireless alarm system** every 65 minutes. This message also contains information on the battery state and the current alarm state. The wireless alarm system can now monitor whether these messages are regularly transmitted. Within the set monitoring time, at least one message per detector must be transmitted.

NOTES:

The setting “**0** hours” aborts monitoring.

You are recommended to set the monitoring time to a minimum of 3 hours.

Quick-Key	Parameter
1 3 4	**Delet detectors**

Deletes all trained wireless detectors simultaneously. To delete the wireless detectors, confirm the setting by pressing #. To exit this menu option without deleting detectors, press *.

NOTES:

If the **J9** jumper was placed on both pins, this menu appears first in the installer menu.

8.2.4 1 4 Set Clock

Under **Set Clock**, you set the system date and time.

To access the Set Clock menu:

1. Select the main menu **System** as described on page 8-22.
2. In the **System** menu, press 4 to get to the Clock menu option:

```
System Clock:
1)System time
```

3. Select and configure the settings in the Set Clock menu as follows:

Set Clock:

Quick-Key	Parameter	Default	Range
1 4 1	**System Time**	**00:00**	SS:MM

Sets the current time in 24-hour format. Enter the current time on the operating panel keypad. Click ↵ or ↵ to move forwards or backwards in the display.

Quick-Key	Parameter	Default	Range
1 4 2	**System Date**	**01 JAN 2000 (SA)**	DD MM YYYY (DAY)

Sets the current date. Enter the date and the year via the keypad. Click ↵ or ↵ to move forwards or backwards in the display. Change the month by pressing 🔒.

8.2.5 [1] [5] Labels

Under **System Label**, you name the system and areas 1, 2 and 3, and change default names.

To enter a new name:

Use the buttons of your **ABUS wireless alarm system** to enter the letters as shown in the table below. When you press a specific button, you scroll backwards and forwards through the characters. The **ABUS wireless alarm system** permits a total of 75 characters for a name (letters, numbers and symbols).

BUTTON	PRODUCES THE LETTERS													
1	1	A	B	C	D	C	F	G	H	I	Y	K	L	M
2	2	N	O	P	Q	R	S	T	U	V	W	X	Y	Z
3	3	!	'	&	'	:	–	.	?	/	(	)		
4	4	a	b	c	d	e	f	g	h	i	j	K	l	m
5	5	n	o	p	q	r	s	t	u	v	w	X	y	z
6 - 0	Each of these buttons scrolls backwards and forwards between number and space.													
	Press this button to scroll forwards between the available characters.													
	Press this button to scroll backwards between the available characters.													
	Press this button to move the cursor to the left.													
	Press this button to move the cursor to the right.													
	Press this button to store a name.													

The number of characters permitted varies for each name as follows:

- **Zone label:** up to 15 characters
- **Partition label:** up to 12 characters
- **Programmable output label:** up to 12 characters
- **Label of a message to the user:** up to 12 characters
- **Label for service information:** up to 16 characters
- **Label for a service name:** up to 16 characters
- **System label:** up to 16 characters
- **Label for a user:** up to 10 characters

To access the System Label menu:

1. Select the main menu **System** as described on page 8-22.
2. In the **System** menu, press [5] to get to the **System Label** menu option. You see the following on the display:



3. Select and configure the settings in the **System Label** menu as follows:

System Label:

Quick-Key	Menu option	Default	Selection
[1] [5] [1]	**System**	ABUS	Any 12 characters
	Changes the display for the system name.		
[1] [5] [2] **to** [1] [5] [4]	**Partitions 1 – 3**	Partitions 1–3	Any 12 characters
	Changes the display for partitions 1 to 3. **Example:** The example below shows how to change the name of partition 1 to “Buero” **To assign the label “Buero” to partition 1:** 1. Press [2] for partition 1. 2. Press [1] three times until the letter **B** appears on the display and then press  once to move the cursor to the right. 3. Press [5] repeatedly until the letter **u** appears on the display and then press  again to move the cursor forwards. 4. Press [4] repeatedly until the letter **e** appears on the display and then press  to move the cursor forwards. 5. Press [5] repeatedly until the letter **r** appears on the display and then press  again to move the cursor forwards. 6. Press [5] repeatedly until the letter **o** appears on the display and then press  again to move the cursor forwards. 7. Press [6] twice for a space and then press  to move the cursor forwards. In this way, delete the unwanted characters.		

8.2.6 [1] [6] Tamper Sound

In the **Tamper Sound** menu, you can define the sounds generated by the **ABUS wireless alarm system** following a tamper in a zone, the ABUS wireless alarm centre housing, the wireless operating panel, or any other device. You can also adjust the sounder volume for alarms and their acknowledgement.

To access the Tamper Sound menu:

1. Select the **System** menu as described on page 8-22.
2. In the **System** menu, press [6] to access the menu option of the **Tamper Sound** menu. You see the following on the display:

   ```
   Tamper sound:
   5) Bell/A Buz/D
   ```

3. Select and configure the settings in the **Tamper Sound** menu as follows:

Tamper Sound:

Quick-Key	Parameter	Default	Range
[1] [6] [1]	**Tamper sound**	**Bell/A Buzzer/D**	1 to 5

Programs the signals generated by a tamper alarm.

Setting	Sound
1	Silent
2	Bell only (external sounder)
3	Buzzer only (piezo on operating panel)
4	Bell and buzzer
5	Bell/Arm, Buzzer/Disarm

NOTE:

If you set sounder/active and buzzer/inactive, the system will activate only the buzzer when in deactivated state. If the system is active, the external sounder is also activated.

[1] [6] [2]	**Speaker Volume**		

Adjusts the volume of the integrated sounder in the event of an alarm and for acknowledgement.

[1] [6] [2] [1]	**Alarm**	**5**	0 to 5

If you confirm this menu option, the sounder is activated briefly at the volume defined. You can adjust the volume with buttons 0 to 5.

The setting 0 deactivates the sounder, and 5 is the loudest setting.

[1] [6] [2] [2]	**Squawk**	**5**	0 to 5

If you confirm this menu option, the sounder is activated briefly at the volume defined. You can adjust the volume with buttons 0 to 5.

The setting 0 deactivates the sounder, and 5 is the loudest setting.

8.2.7 1 7 System Default Jumper

In the **Default Jumper** menu, you enable or disable a software factory reset via the J9 jumper.

To access the Default Jumper menu:

1. Select the main menu **System** as described on page 8-22.
2. In the **System** menu, press 7 to access the **Default Jumper** menu option. You see the following on the display:

   Default jumper:
   (J9) is enabled

3. Press  to select one of the following settings:
   - **Enabled**: The **ABUS wireless alarm system** can be completely reset to its original default (factory) settings by switching off and on the complete power supply and with the help of the J9 jumper. All settings, labels, PIN codes, etc. are reset to the factory settings.
   - **Disabled:** The **ABUS wireless alarm system** cannot be reset by changing the J9 jumper and switching on and off.

8.2.8 1 8 Service Information

The **Service Information** menu enables you to enter details about the vendor of the system (name, telephone number, etc.).

To access the Service Information menu:

1. Select the main menu **System** as described on page 8-22.
2. In the **System** menu, press 8 to access the **Service Information** menu option. You see the following on the display:

   Service Info:
   1)Service Name ↓

3. Select and configure the parameters in the **Service Information** menu as follows:

Service Information

Quick-Key	Menu option	Default	Selection
1 8 1	**Service Name**		Any 16 characters
	Enter the vendor's name.		
1 8 2	**Service Rufnummer**		Any 16 characters
	Enter the vendor's telephone number.		

8.2.9 1 9 Version

The **Version** menu shows the current version of the alarm system.

To access the Version menu:

1. Select the main menu **System** as described on page 8-22.
2. In the **System** menu, press 9 to get to the **Version** menu option.

The version of the system with the checksum number of the software is displayed.

8.3 2 Zones

The **Zones** menu enables you to train wireless detectors for the system, program zone types, and define zone dependencies. This is an overview of the menu options according to their sequence in the **Zones** menu:

2 1 **Allocation**, page 8-36
2 2 **Parameters**, page 8-37
2 3 **Testing**, page 8-45
2 4 **Editing**, page 8-46
2 5 **Crossing**, page 8-48

To access the Zones menu:

In the installer menu, press 2 or press ↵ or ↱ until you find the number of the **Zones [2]** menu option.

Then press #. The first submenu **Allocation** appears on the display:

```
Zones:
1)Allocation
```

*You are now in the **Zones** menu option and can access the submenus, as described in the following sections.*

8.3.1 2 1 Allocation

Under**Allocation**, you can make settings for learning and deleting zones.

For additional information, refer to the instructions supplied with the wireless detectors.

To access the Allocation menu:

1. Select the **Zones** menu as described on page 8-36.
2. In the **Zones** menu, press 1 to access the **Allocation** menu option.
3. Enter the two-digit number of the zone you want to edit and press #.
   You see the following on the display:

```
Zone:xx    (Alloc)
1)Skip
```

2 1 ZZ # 1	**Skip** Jumps to the next zone number.
2 1 ZZ # 2	**(Re) Write** Trains new wireless detectors to work with the alarm system. When you select this menu option, a countdown of 255 seconds begins. If you trigger the wireless detector within this time (as described in these instructions), the detector sends a learn message. If the signal is received, the alarm system acknowledges it with an acknowledgement tone. To cancel the learning procedure, press *.

2 1 ZZ #↑ 3	**Delete**
	Deletes detectors. Confirm deletion with **[Y] YES** or **[N] NO**. To change the display, press .
2 1 ZZ #↑ 4	**Supervision**
	Select whether a zone is to be monitored for regular reporting by the detectors to the alarm system. Set the monitoring time in the **System** menu under **Timers**. If surveillance is active for the detector and the detector does not report in the defined time, an alarm is triggered. Select **[Y] YES** or **[N] NO**. To change the display, press . To confirm, press #↑.

8.3.2 2 2 Parameters

Under **Parameters**, you can make settings for programming properties of the zones. You can program all settings one by one for a zone, or you define the respective parameters for all zones. If this is your first installation, you are recommended to select **EinzeIn???**. If you make changes later, you can program the parameters directly in this menu.
You can first program the zones and then train the wireless detectors, or vice versa.

- **One by one**
- **Zone Label**
- **Partitions**
- **Type**
- **Zone Sound**
- **Force Arming**

Parameter

Quick-Key	Parameter	Default	Range
2 2 1	**One by one**		
	The **one by one** option enables you to program the parameters individually for each zone – i.e., one zone after the zone. 1. Enter a two-digit number to start programming (e.g. 01) and press #↑ to access the **zone label** menu option. 2. Enter a name for the zone and press #↑ to go to the next menu option. 3. Press **[1]** to **[3]** to switch the state of the partition between **[Y] YES** and **[N] NO**. A zone must be assigned to at least one area. Press #↑ to go to the next menu option. 4. To program the zone type and make the other settings for the zone, select the following menu options. **Type**: Select a type and press #↑. **Zone sound**: Select a signal type and press #↑. For further information about zone types and zone signals, see the next pages.		

Quick-Key	Parameter	Default	Range

IMPORTANT INFORMATION:

- If you selected **one by one** to program the zones individually, you are guided step by step through the programming points for the zones.
- To save settings for the zone, you have to work through all menu options. If you exit programming early by pressing the star button, your settings are not saved.

After working through all menu options menu, press . A 1-second tone sounds and confirms that your settings for this zone are saved. You go automatically to the next zone.

Zone 33 (wired zone)

Zone 33 is defined in the **ABUS wireless alarm system** as a wired zone. For this reason, it has two extra parameters following the **Zone sound** menu item that are applicable to this wired zone only:

- **Zone termination**
- **Zone loop response**

Zone termination

A wired zone is monitored using a weak electric current. The electric current is defined by the resistor used. You can terminate a zone as follows:

- **N/C**: (= normally closed) a zone termination is not necessary. It is important to use detectors that open the circuit in the event of an alarm.
- **EOL**: (= single resistor) a zone termination with a resistor (2.2kOhm / red, red, red, gold) is required. It is important to use detectors that open the circuit in the event of an alarm.
- **DEOL**: (= double resistor) a zone termination with two resistors (2.2kOhm / red, red, red, gold) is required. One resistor is inserted parallel to the tamper contact of the detector. It is important to use detectors that open the circuit in the event of an alarm.
- **N/O**: (= normally open) a zone termination is not necessary. It is important to use detectors whose circuit closes in the event of an alarm.

To see how to wire a detector, see page 5-18.

NOTE:

For more information, see the wiring notes at the beginning of these instructions.

Zone loop response

Under **zone loop response**, you program the time that the wired zone has to be open (closed) before an alarm is triggered.

The following options are available:

1) Normal: 400 ms (milliseconds)
2) Long: 1 second
3) Fast: 10 ms (milliseconds)
4) 30 minutes
5) 1 hour
6. 1.5 hours
7) 2 hours
8) 2.5 hours
9) 3 hours
10) 3.5 hours
11) 4 hours

2 2 2

Zone Label

Under **Zone label**, you can define or edit a name up to 15 characters long for each zone.

Under **Parameters**, press 2 to access the **zone label** menu option. You see the following on the display:

```
Zone label:
Zone:01   (01-33)
```

1. Press #▲ to name Zone 01 or enter a different zone number. You see the following on the display:

```
Zone label:   01
Zone 01
```

Edit the zone name as described on page 8-34.

2 2 3

Zone Partition Partitions 1–3

Under **Partition**, you assign zones to different areas. This is necessary in larger systems to distinguish, for example, between the commercial area (shop) and the private area (home), when both are monitored by the **ABUS wireless alarm system**.

2. Under **Parameters**, press 3 to access the **Partition** menu option. The following appears on the display:

```
Zone partition:
Zone: 01   (01-33)
```

Enter a two-digit zone number and press #▲. You see the following on the display:

```
P=123        Z=XX
  Y..
```

NOTE:

You can assign a zone to one or more areas. The **Y** under the number shows the area (1, 2, 3) to which the zone is assigned. A zone that is assigned to more than one area is not monitored until all assigned areas are activated.

Press **[1]** to **[3]** to switch the state of the areas between **[Y] YES** and **[N] NO**.

2 2 4	**Zone Type**

When a detector triggers, it always sends a signal to the alarm system. For example: A motion sensor reacts to movement, a smoke detector to smoke, etc. So it is important to tell the system HOW and WHEN it is to react to a signal from a detector.

Under **Zone type**, you can program the behaviour of the alarm system when it receives a signal from a detector. It is absolutely necessary to program this behaviour since your alarm system will not work without it. The following zone types are monitored, depending on the state of the alarm system:

3. **Disarm**: The system reacts to the following zones only: 24-hour, fire, panic and fault.
4. **Arm**: The system reacts to all zones.
5. **Stay (Internal arm)**: The system does **not** react to zones you have programmed as internal zones. This setting enables you to move within the object when the perimeter is protected.

There are 22 zone types, whose properties are described in the following:

Under **Parameters**, press 4 to get to the **Zone type** menu option. You see the following on the display:

```
Zone type:
Zone:01    (01-33)
```

Enter a two-digit zone number and press #.

Select and configure the zone types as follows:

Zonentyp???

Quick-Key	Menu option	Default	Selection
2 2 4 ZZ + # 00	**Not used**	NONE	
	A zone programmes as **not used** is not monitored. The alarm system reacts neither to battery faults, tampering, nor monitoring failure of the detector trained for this zone. However, a trained detector is not deleted.		
2 2 4 ZZ + # 01	**Exit/Entry 1**		Armed/internal
	A zone programmed as **Exit/Entry 1** must not be opened during the exit delay time without an alarm being triggered. However, the zone must be closed before the exit delay time expires. If the zone is opened when the alarm system is active, the entry delay time of **Group 1** (to be programmed under **System/Timers**) is started. The area of the wireless alarm system must be deactivated in this time. If not, an alarm is triggered following the expiry of the delay period. Detectors trained for a zone with this property are usually fitted to front and side doors. This zone must be closed at the moment of activation. If this cannot always be guaranteed, choose the zone type **Exit(OP)/Entry**		
2 2 4 ZZ + # 02	**Exit/Entry 2**		Armed/internal
	See above. However, for zones of this type, the times of **Group 2** apply.		

2 2 4 ZZ + #↑ 03	**Exit(OP)/Entry**	Default for zone 1	Armed/internal

Zone type **Exit(OP)/Entry** behaves like zone type **Exit/Entry 1** except that the zone does not have to be closed at the moment of activation. However, the zone must be closed before the exit delay time expires, or otherwise there is an alarm. This zone type is usually assigned to opening contacts on front and side doors.

2 2 4 ZZ + #↑ 04	**Entry follower**	Armed/internal

Zone type **Entry follower** does not trigger an alarm if an entry delay time is started first. If no entry delay is active, this zone triggers an alarm immediately if the area is activated. This zone type is usually assigned to motion sensors that monitor the entrance area, in addition to opening contacts on the entrance doors.

2 2 4 ZZ + #↑ 05	**Instant**	Armed/internal

If the area is active, the **Sofort???** zone type triggers an alarm immediately when the zone is opened. This zone must not be opened during the entry and exit delay period. This is the usual zone type for motion and opening sensors that are not in the entrance area.

2 2 4 ZZ + #↑ 06	**I+Exit/Entry 1 (Interior+Exit/Entry 1)**	Default for zone 2	Armed

The **I+Exit/Entry 1** zone type is similar to zone type **Exit/Entry 1**. However, this zone type is **not** monitored for an internally activated system.

IMPORTANT INFORMATION:

To shorten the exit delay time, press  twice. This sets the entry delay time to 0. If this zone is now opened, there is an immediate alarm.

2 2 4 ZZ + #↑ 07	**I+Exit/Entry 2 Interior+Exit/Entry 2)**	Armed

See above. However, for zones of this type, the times of **Group 2** apply.

2 2 4 ZZ + #↑ 08	**I+Exit(OP)/Entry (Interior+Exit(OP)/Entry)**	Armed

The **I+Exit(OP)/Entry** zone type is similar to zone type **Exit(OP)/Entry**. However, this zone type is **not** monitored for an internally activated system.

2 2 4 ZZ + #↑ 09	**I+Entry follow (Interior+Entry Follower)**	Armed

The **I+Entry follow** zone type is similar to zone type **Entry Follower**. However, this zone type is **not** monitored for an internally activated system.

2 2 4 ZZ + #↑ 10	**I+Instant (Interior+Instant)**		Armed

The **I+Instant** zone type is similar to zone type **Instant.** However, this zone type is **not** monitored for an internally activated system.

2 2 4 ZZ + #↑ 11	**UO Trigger**		Armed

The **UO Trigger** zone type controls a switch output whether the system is active or inactive. For example: for temperature sensors that control a ventilator.

2 2 4 ZZ + #↑ 12	**Day Zone**		Armed

A zone with the **Day Zone** zone type immediately triggers an alarm in an internally or externally activated system. If the system is inactive, a fault is displayed on the alarm system display. The fault message can now control a switch output or be viewed by the user in the user menu under **Troubles**. This zone type is mostly used to protect emergency exits.

2 2 4 ZZ + #↑ 13	**24 Hours**	Default for zone 3	All

A zone with the **24 Stunden???** zone type triggers an alarm immediately, irrespective of the state of the alarm system. This zone type is mostly used for passive glass breakage sensors.

2 2 4 ZZ + #↑ 14	**Fire**	Default for zone 3	All

A zone with the **Fire** zone type triggers a fire alarm immediately, irrespective of the state of the alarm system. This zone type is used for smoke detectors.

NOTE:
Zone 33 cannot be programmed as a fire zone.

2 2 4 ZZ + #↑ 15	**Panic**	All

A zone with the **Panic** zone type triggers a panic alarm immediately, irrespective of the state of the alarm system. This zone type is not intended for panic messages triggered by remote control. See the **key-fob** menu.

2 2 4 ZZ + #↑ 16	**Special**	All

A zone with the **Special** zone type triggers a medical emergency alarm (not a panic alarm) immediately, irrespective of the state of the alarm system.

2 2 4 ZZ + #↑ 17	**Pulse Keyswitch**

A zone with the **Pulse Keyswitch** zone type can be used to activate/deactivate an area. The state change must be in the form: closed – open (pulse) – closed.

2 2 4 ZZ +

18

Exit Termination

A zone with the **Exit Termination** zone type behaves like a zone with the **Exit(OP)/Entry** zone type. However, the difference is that an exit delay time is ended immediately if this zone is opened or closed during the exit delay time.

When you enter the protected area, the entry delay time of Group 1 starts as usual.

2 2 4 ZZ +

19

Latch Keyswitch

A zone with the **Latch Keyswitch** zone type is used for activating/deactivating one or more areas. The area remains active as long as the zone is open, and is deactivated as soon as the zone is closed.

2 2 4 ZZ +

20

Entry Follower + Stay (Internal)

If armed, this zone works like a zone type Entry Follower. If stay armed this zone type works like an exit/entry zone of Group 1.

2 2 4 ZZ +

21

Keyswitch Delay

A zone with the **Keyswitch Delay** zone type is used for activating/deactivating one or more areas. This zone type is comparable to zone type **Key switch**, except that the area is first activated following expiry of the entry/exit delay time of Group 1.

2 2 4 ZZ +

22

Latch KSW Delay

A zone with the **Latch KSW Delay** zone type is used for activating/deactivating one or more areas. The area remains active as long as the zone is open, and is deactivated as soon as the zone is closed. This zone type is comparable to zone type Blockschloss, except that the area is first activated following expiry of the entry/exit delay time of Group 1.

2 2 5	**Zone Sound**

Under **Zone sound**, you can, for each zone, define the alarm signal individually that is triggered when the alarm system is active.

1. Under **Parameters**, press 5 to access the **Zone sound** menu option. You see the following on the display:

   ```
   Zone sound:
   Zone:01    (01-33)
   ```

2. Enter a two-digit number and press #.
3. Select and configure a zone signal for each zone.

Zone sound

Quick-Key	Parameters	Default	Range
2 2 5 ZZ + # 1	**Silent**		
	No audible alarm is generated. An alarm is transmitted by telephone only.		
2 2 5 ZZ + # 2	**Bell Only**		
	Activates the external and internal sounders for the defined sounder duration or until a valid user code is entered and the # key is pressed.		
2 2 5 ZZ + # 3	**Buzzer Only**		
	Activates the piezo buzzer of the alarm system.		
2 2 5 ZZ + # 4	**Bell + Buzzer**	Default for all zones	
	Activates the piezo buzzer plus the internal and external sounders. The sounders switch off when the programmed sounder duration expires.		
2 2 5 ZZ + # 5	**Door Chime**		
	If the system is inactive, this causes the piezo buzzer of the alarm system to emit 3 short beeps. If the system is active, the internal and external sounders are activated.		
2 2 5 ZZ + # 6	**(Bell/A Buzzer/D)**		
	If the system is inactive, this activates the piezo buzzer of the alarm system, and if the system is active, the internal and external sounders are activated.		

2 2 6 **Force Arm**

The **Force Arm** setting for a zone enables the system to be activated even if one or more zones are open, provided these zones were programmed with this setting.

- If such a zone is open, the “ready” system LED flashes.
- After the system is activated, all open zones programmed as **Force Arm** are automatically excluded from monitoring.
- If such a zone is closed in active status, it is returned to monitoring.

To program a zone with the **Force Arm** setting:

1. Under **Parameters**, press **6** to access the **Force Arm** menu option. You see the following on the display:

   ```
   Forced ARM:
   Zone:01    (01-33)
   ```

2. Enter the zone number for which you want to program Zwangsaktivierung??? and press #.
3. Press ↵ or → to select **Enable** or **Disable** and then press #.

Repeat steps 1 to 3 to program this settings for the other zones.

Press # to exit the menu option.

8.3.3 2 3 Zone Testing

Under **Testing**, you can check the correct functioning of zones.

To access the Testing menu:

1. Select the **Zones** menu as described on page 8-36.
2. In the **Zones** menu, press **3** to access the **Testing** menu option. You see the following on the display:

   ```
   Zone testing
   01)WL.comm.test↓
   ```

2 3 1 **Funkkommunikationstest???**

Runs a communication test between the wireless detector and the **ABUS wireless alarm system**.

Press **1**. You see the following on the display:

```
Zone comm.test:
01)Zone 01   :00
```

To run the communication test, trigger the detector. If reception is successful, the alarm system shows the signal strength. A successful test is confirmed by a beep on the alarm system.

NOTE:

For successful communication, the signal strength (= displayed value) should be higher than the noise level of the transmitter (see also page **Fehler! Textmarke nicht definiert.**).

Press ↵ or → to select the zone number of the next wireless detector.

Press * to exit the menu option.

2 3 2	**Soak Test**

Some wireless detectors tend to trigger alarms more than others. The Soak Test was developed to test these detectors over a longer period without triggering an alarm.

Up to 8 zones can be programmed for the Soak Test. A zone programmed for the Soak Test is omitted for 14 days while the alarm system is active. If no alarm is triggered by this detector for 14 days, the tested zone is automatically reintegrated in the system.

If one of the zones programmed for the Soak Test sends an alarm within these 14 days, the alarm system does not trigger an alarm but registers a fault message instead. You can see the fault message in the user menu.

The 14-day period for the joint test of alarm lines is then set to zero and restarted.

To add a zone to the Soak Test:

Press 2. You see the following on the display:

```
Zones for test:
01)None                ↓
```

To add a zone to the Auto Test???, press #. You see the following on the display:

```
Location 01:
Zone:00   (00-33)
```

Enter the zone number (e.g., 01 for Zone 1) and press #. The menu jumps to the next assignment number.

To add a second zone to the Soak Test, press # and repeat the above procedure

- OR -

Press * to return to the previous menu.

If you enter zone number **00**, no zone is assigned to the Soak Test.

8.3.4 2 4 Editing

Under **Editing**, you can copy and delete programmed zones.

To access the Editing menu:

1. Select the **Zones** menu as described on page 8-36.
2. In the **Zones** menu, press 4 to get to the **Editing** menu option. You see the following on the display:

```
Zone editing
1)Copy zone            ↓
```

Editing

Quick-Key	Parameter
2 4 1	**Copy to a zone**

Copies all settings programmed for a zone (except the zone name).

1. Press 1. You see the following on the display:

   Copy zone:
   From:01 To:01

2. Press the number buttons **1** to **9** to select the zone you want to copy and press or to move the cursor. Press **1** to **9** again to select the zone to which you want to copy.

   The procedure is confirmed with a beep if successful.

3. Press * to exit the menu option.

Quick-Key	Parameter
2 4 2	**Delete a Zone**

Deletes a zone. The zone is not completed deleted, but its zone type is set to “not used”. The zone settings are retained.

1. Press 2.
2. Press or or the number buttons **1** to **9** to select the zone you want to delete.
3. Press to switch between **[Y] YES** and **[N] NO** and press to confirm.
4. Press * to exit the menu.

Quick-Key	Parameter
2 4 3	**Add/Copy Partition**

Copies a partition to another partition.

- Press 3.
- Press the number buttons **1** to **3** to select the area you want to copy and press or to move the cursor. Press the number buttons **1** to **3** again to select the area to which you want to copy.

The procedure is confirmed with a beep if successful.

Press * to exit the menu option.

Quick-Key	Parameter
2 4 4	**Delete a partition**

Deletes a selected partition. All zones assigned to this partition are also deleted.

1. Press 4.
2. Press the cursor keys to select the area you want to delete.
3. Press to switch between **[Y] YES** and **[N] NO** and press .
4. Press * to exit the program.

8.3.5 [2] [5] Cross Zone

Default: No cross-zone dependency
Cross-zone dependency is an ideal function for making a system safer against false alarms. Using cross-zone dependency, two zones have to trigger an alarm within a specific period and in a defined or undefined sequence before the alarm system generates an alarm.

NOTE:
The **ABUS wireless alarm system** enables you to program 10 of these zone pairs.

To access the Cross Zone menu:

1. Select the **Zones** main menu as described on page 8-36.
2. In the **Zones** menu, press [5] to get to the **Cross Zone** menu option. You see the following on the display:

   ```
   Zone crossing:
   01) 01 with 01
   ```

3. Press (#) to define the first pair (01) of cross-dependent (interdependent) zones.

   ```
   Crossing set 01:
   1st=01  2nd=01
   ```

4. You select a zone pair by entering the number of the first zone followed by the number of the second zone.
   If necessary, press (←) or (→) to switch between the first and second zone.

   NOTE:
   Zones defined as mutually interdependent are considered as a zone pair. They both have to report an alarm before the system triggers an alarm.

5. Press (#) to define how the ABUS wireless alarm system deals with cross-zone dependency.
6. Select and configure the paired zones as follows:

Crossing

Quick-Key	Parameter	Default
[2] [5] [1]	**None**	
	No dependency is defined between the zones.	
[2] [5] [2]	**Ordered**	
	The **ABUS wireless alarm system** triggers an alarm if the first zone and then the second zone triggers an alarm within the defined period. The alarm system triggers no alarm if the zones trigger in the opposite order.	
[2] [5] [3]	**Not ordered**	
	The **ABUS wireless alarm system** triggers an alarm if both zones are triggered within the defined period. Which of the two zones is first triggered is irrelevant.	

7. After programming the type of interdependency, press (#) to um define the time interval between 1 and 9 minutes. The menu for programming the time interval opens.

   ```
   Slot:          01,01:
   Time=1 Minute
   ```

8. Enter the time that can elapse between the triggering of the first and second detectors. If the interval is too big, it is possible that no alarm will be triggered.

8.4 [3] Outputs

Under **Outputs**, you program the relay and transistor outputs of the system. You link different system events to the activation of the outputs. The following is an overview of the menu options according to their sequence in the **Outputs** menu:

[3] [0] **Define,** page 8-49
[3] [1] **Output A**, page 8-54
[3] [2] **Output B**, page 8-54

To access the Outputs menu:

In the installer menu, press [3] or press ↵ or ↷ until you find the number of the **Utility Output [3]** menu option. Press #. The first submenu appears on the display:

```
Outputs:
1) Define
```

*You are now in the **Outputs** menu and can access the submenus as described in the following sections.*

8.4.1 [3] [1] Define

Under **Define**, you can program specific outputs.

To access the Define menu:

1. Select the **Outputs** menu as described on page 54.
2. Under **Outputs**, press [1] to access the **Define** menu option.
3. Enter a two-digit number for the output you want to program. Enter a zero (0) and a number from 1 to 9 (for example: **01**, **02** etc.). Then press #. You see the following on the display:

```
U0:1 Follows:
0) Nothing
```

4. You can now program the selected switch output. After defining the event to be followed by the output, press # and continue with the displayed menus to program the areas (only for outputs that follow an area; see page 8-53).

Define	
Quick-Key	**Parameter**
[3] [1] [▫▫] [0]	**Follow nothing**
	The switch output follows no event and is therefore deactivated.
[3] [1] [▫▫] [1]	**Follow system**
	This menu option shows system events.
[3] [1] [▫▫] [1] [01]	**Bell Follow**
	This switch output is activated if an external sounder is activated. In the case of a sounder delay, this output is activated following the expiry of the delay period.

3 1 ▫▫ 1 02	**No Telephone Line**
	The switch output is activated if a break in the telephone line is detected. It is deactivated after the telephone line fault is removed.
3 1 ▫▫ 1 03	**Communication Failure**
	The switch output is activated if no contact to the command centre can be established. It is deactivated after a successful call is made to the command centre.
3 1 ▫▫ 1 04	**Trouble Follow**
	The switch output is activated if a system fault is detected. It is deactivated as soon as the fault is cleared.
3 1 ▫▫ 1 05	**Low Battery Follow**
	The switch output is activated if the battery of the **ABUS wireless alarm system** has insufficient reserve capacity and the voltage falls to 7V.
3 1 ▫▫ 1 06	**AC Loss Follow**
	The switch output is activated if the power supply of the **ABUS wireless alarm system** is interrupted and the programmed period is exceeded.
3 1 ▫▫ 1 07	**Bell Burglary**
	The switch output is activated if a burglar alarm is triggered in an area.
3 1 ▫▫ 1 08	**Scheduler**
	The switch output is activated if the time set in the scheduler is reached.
3 1 ▫▫ 1 09	**Chime Follow**
	The switch output is activated if the door chime is activated.
3 1 ▫▫ 2	**Follow Partition**
	This menu option lists events for an area.
3 1 ▫▫ 2 01	**Ready Follow**
	The switch output is activated if all selected areas are in READY state.
3 1 ▫▫ 2 02	**Alarm Follow**
	The switch output is activated if an alarm is triggered in the selected area(s).
3 1 ▫▫ 2 03	**Arm Follow**
	The switch output is activated if the selected areas are activated in EXTERNAL or INTERNAL mode . The switch output is activated immediately, regardless of the programmed exit delay time.
3 1 ▫▫ 2 04	**Burglary Follow**
	The switch output is activated if a burglar alarm is triggered in the selected area(s).
3 1 ▫▫ 2 05	**Fire Follow**
	The switch output is activated if a fire alarm is triggered in the selected area(s) or if the  **(FIRE)** alarm buttons are pressed simultaneously.

3 1 ▫▫ 2 06	**Panic Follow**
	The switch output is activated if a panic alarm is triggered in the selected area(s) or if the  **(PANIC)** alarm buttons are pressed simultaneously.
3 1 ▫▫ 2 07	**Special Emergency Follow**
	The switch output is activated if a medical emergency alarm is triggered in the selected area(s) or if the  alarm buttons are pressed simultaneously.
3 1 ▫▫ 2 08	**Duress Follow**
	The switch output is activated if a forced alarm is triggered on the operating panel in one of the selected areas. To deactivate this switch output, see the user menu under **Duress Reset** (**[2] [6]**). (This is described in the *ABUS User Guide*.)
3 1 ▫▫ 2 09	**Buzzer Follow**
	The switch output is activated if an operating panel activates its buzzer in the selected area(s).
3 1 ▫▫ 2 10	**Exit/Entry Follow**
	The switch output is activated if the entry/exit delay time is activated in the selected area(s).
3 1 ▫▫ 2 11	**Fire Trouble Follow**
	The switch output is activated if a fire fault is detected in the selected area(s).
3 1 ▫▫ 2 12	**Day (Zone) Trouble**
	The switch output is activated if a Tages??? zone fault is detected in the selected area(s).
3 1 ▫▫ 2 13	**General Trouble Follow**
	The switch output is activated if any fault is detected in the selected area(s).
3 1 ▫▫ 2 14	**Stay Follow**
	The switch output is activated if one of the selected areas is INTERNALLY activated.
3 1 ▫▫ 2 15	**Tamper Follow**
	The switch output is activated if tampering is detected in the selected area(s).
3 1 ▫▫ 2 16	**Disarm Follow**
	The switch output is activated if one of the selected areas is deactivated.
3 1 ▫▫ 2 17	**Bell Follow**
	The switch output is activated if the sounder is triggered in the selected area.

3 1 ▫▫ 2 18	**Bell Stay Off**

The switch output is activated as follows:

- If the system is activated externally (AWAY), the switch output is activated as soon as the sounder is triggered in the selected area.
- If the system is activated internally (STAY), the switch output is not activated if the sounder is triggered in the selected area.

NOTE:

If an alarm is to be triggered in a zone that is assigned to more than one area, and if one of the areas is in an externally activated state (while the other area is in an internally activated state), the switch output is activated in the event of an alarm.

In an internally activated state, a 24-hour zone does not activate this switch output.

3 1 ▫▫ 2 19	**Zone Bypass**

The switch output is activated if a zone is omitted in the selected area(s) and the area(s) are internally or externally activated.

3 1 ▫▫ 2 20	**Auto Arm Alarm**

The switch output is activated if an alarm was activated during the prewarning time during an auto-arm process.

3 1 ▫▫ 2 21	**Zone Loss Alarm**

The switch output is activated if a wireless zone is lost.

3 1 ▫▫ 3	**Follow Zone**

This menu option lists events for a zone.

3 1 ▫▫ 3 1	**Zone Follow**

The switch output is activated if the selected zone is triggered. The state of the alarm system is not relevant.

3 1 ▫▫ 3 2	**Alarm Follow**

The switch output is activated as soon as the selected zone triggers an alarm.

3 1 ▫▫ 3 3	**Arm Follow**

The switch output is activated if the selected zone is triggered via the system.

3 1 ▫▫ 3 4	**Disarm Follow**

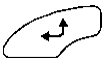
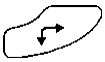
The switch output is activated if the selected zone is deactivated via the system.

3 1 ▫▫ 4	**Follow User Code**

The switch output is activated if a valid user code is entered.

The switch output is activated by the user in the function menu **Activities/Operate Output**, buttons **[2][1]**.

To enable you to activate the output with a PIN, the PIN must be authorised for the activation of a switch output.

Press  or  to select the equivalent code from the 32 available user codes.

Press  to switch between **[Y] YES** and **[N] NO**.

NOTE:

The switch output is activated by the entry of a user code only if the utility output setting is set to **N** in the system macros. If quick output is activated, no user code is required.

Output mode

An output mode has to be set for every output. This table gives an overview of the different output modes:

Outputs			
Quick-Key	**Parameter**	**Default**	**Range**
1	**Pulse N/C**	05 seconds	01-90 seconds

The output is **closed** in non-activated state. Once activated, it remains open until the set time has elapsed and then resets itself automatically.

1. Press 1 followed by #.
2. Enter a pulse duration between 1 and 90 seconds.
3. Press # and enter the activation of your choice (**ALL** or **ANY**). See the note on the next page.
4. Press # and select a name for the utility output.

2	**Latch N/C**		

The output is **closed** in non-activated state. Once activated, the output remains open until it is reset manually.

4. Press 2 followed by #.
5. Press # and enter the activation of your choice (**ALL** or **ANY**). See the note on the next page.
6. Press # and enter the deactivation of your choice (**ALL** or **ANY**). See the note on the next page.
7. Press # and select a name for the utility output.

3	**Pulse N/O**	05 seconds	01-90 seconds

The switch output is **open** in non-activated state. Once activated, it remains closed until the set time has elapsed and then resets itself automatically.

1. Press 3 followed by #.
2. Enter a pulse duration between 1 and 90 seconds.
3. Press # and enter the activation of your choice (**ALL** or **ANY**). See the note on the next page.
4. Press # and select a name for the utility output.

4	**Latch N/O**		

The switch output is **open** in non-activated state. Once activated, the output remains closed and may have to be reset manually.

1. Press 4 followed by #.
2. Press # and enter the activation of your choice (**ALL** or **ANY**). See the note on the next page.
3. Press # and enter the deactivation of your choice (**ALL** or **ANY**). See the note on the next page.
4. Press # and select a name for the utility output.

Activation/Deactivation

If the switch output follows more than one area or zone, you can use different patterns for activating and deactivating the switch output. **ALL** or **ANY.**

All: ALL areas (or zones) programmed for this switch output must be triggered in order to activate the output. On the other hand, all areas or zones must be inactive in order to deactivate the output. The latter applies only to the outputs **Latch N/O** and **Latch N/C**. The outputs **Pulse N/O** and **Pulse N/C** return to inactive automatically after the period defined by you.

Any: Only ONE area (or zone) programmed for this output has to be triggered in order to activate the output. If one of the areas (or zones) returns to inactive, the output is also deactivated. The latter applies only to the outputs **Latch N/O** and **Latch N/C**. The outputs **Pulse N/O** and **Pulse N/C** return to inactive automatically after the period defined by you.

Output label

Define a name for each output, for example lighting control or strobe, describing the function of the output.

8.4.2 3 2 Output A

Under **Output A/B**, you can define the outputs to be activated with the button function #↑ **[4]/ [6]** of the **ABUS wireless alarm system**.

To access the Ausgang A menu:

1. Select the **Output** menu as described on page 8-49.
2. In the **Output** menu, press 2 to access the **Output A** menu option.
3. Enter the two-digit number of the switch output you want to define as output A, and press #↑.

8.4.3 3 3 Output B

To access the Output B menu:

1. Select the **Output** menu as described on page 8-49.
2. In the **Output** menu, press 3 to access the **Output B** menu option.
3. Enter the two-digit number of the switch output you want to define as output B, and press #↑.

8.5 4 Codes

Under **Codes**, you can define user and installer Codes, define authorities, and assign areas.
The **ABUS wireless alarm system** also has the following Codes.

- **Grand Master Code:** Used by the system owner. This Code has authority over all others and can only be changed but not deleted. The default is: **[1][2][3][4]**.
- **Installer Code:** This Code is needed for programming the system. The default is: **[0][1][3][3]**.
- **Sub-Installer Code:** This Code can also be used for programming the system. However, the options are restricted.

Program the codes as follows:

- Define the authority level of each user code.
- Allocate the areas to a specific code.
- Change the Grand Master Code, the Installer Code and the Sub-Installer Code
- Optionally, you can first extend the security level of a six-digit Code.

The following is an overview of the menu options according to their sequence in the **Codes** menu:

4 1 **Authority**, page 8-55
4 2 **Partition**, page 8-56
4 3 **Grand Master**, page 8-57
4 4 **Installer**, page 8-58
4 5 **Sub-Installer**, page 8-58
4 6 **Code Length**, page 8-58

To access the Codes menu:

In the installer menu, press 4 or press ↵ or ↱ until you find the number of the **Code [4]** menu option. Press #▲.
The first submenu appears on the display:

```
Codes:
1)Authority
```

*You are now in the **Codes** menu and can access the submenus, as described in the following sections.*

8.5.1 4 1 Authority

Default: User
Under **Authority**, you can assign an authority to each user PIN. There are 7 authority levels that can be used for customising the requirements of different users.

To access the Authority menu:

1. Select the **Codes** menu as described on page 8-54.
2. Under **Codes**, press 1 to access the **Authority** menu option. You see the following on the display:

   ```
   Select user:
   01)User 01
   ```

3. Press ↵ or ↱ to select a user and press #▲ or enter the two-digit number of the user (from 01 to 31).
4. Press 🔒 to switch between the authorities.
5. Press #▲ to confirm and continue with the next PIN code.
6. Press * to exit the menu option.

Authority Levels

The **Authority Levels** menu option contains settings for the following authorities:

Grand Master: There is only one Grand Master in the system. The **Grand Master** can carry out all available user functions. The Grand Master code is defined as PIN code user 00.



NOTE:

Under **System Control**, you can define that the Grand Master can change authorities as well as areas permitted for users. See under **Grand Master Authority/Partition** (press **[1] [2] [27]**).

Manager: There is only one Manager in the system. The **Manager** is defined as Code user 01. The Manager can change all user codes except that of the Grand Master. The Manager has access to all functions listed below, with the following restrictions:

- Changing the Grand Master code
- Performing the walk test

Master: There is no restriction on the number of **Masters** (as long as they do not exceed the number of codes remaining in the system). The Master has access to all Manager privileges with the following restrictions:

- The Master is restricted to defining and changing user codes at the level of Master or below (user, arm only, maid).
- The Master has restricted access to defined areas.

User: There is no restriction on the number of **User** PIN codes (as long as they do not exceed the number of PIN codes remaining in the system). A user can:

- Activate/deactivate
- Omit zones
- Access defined areas
- View the state of the system, faults and the alarm memory
- Activate defined switch outputs
- Change his/her own user PIN
- Conduct selected system tests but no walk tests

Arm Only: There is no restriction on the number of **Arm Only** PIN codes (as long as they do not exceed the number of PIN codes remaining in the system). Users with **Arm Only** PIN codes only have the authority to activate one or more areas.

Maid: A PIN code with the **Maid** authority is a temporary user PIN that is deleted by the system immediately after being used for an activation. User PINs with this authority are used as follows:

- For a once-only activation in one or more areas
- The user PIN can be used the first time to deactivate the system and then to activate it.

UO Only: A PIN code with the **UO Only** authority is used to activate/deactivate a switch output manually.

User Unbypass: A PIN code with the **User Unbypass** authority has access to all user authorities except omitting zones.

8.5.2 4 2 Partition

Default: Partition 1
Under **Partition**, you assign to user PINs partitions for which you have authority. The Grand Master is authorised in all partitions.

To access the Partition menu:

1. Select the **Codes** menu as described on page 8-54.
2. Under **Codes**, press 2 to access the **Partition** menu option.
3. Enter the respective two-digit user code and press #. You see the following on the display:



4. Press ← or → to place the cursor under the number specifying the partition to which you want to allocate the code.
5. Change the authority of the user for the respective partition with buttons **1** to **3**.
   An area authorised for the used is shown with a "Y" under the partition number (1 to 3).

NOTE:
A standard system uses only Partition 1.

6. Press # to program a different user code.
7. Repeat steps 2 to 6 until all user PINs created in the system are allocated to partitions.
8. To exit the menu option, press *.

8.5.3 4 3 Grand Master

Default: 1234
Under **Grand Master**, you can change the Grand Master PIN.

NOTE:
The Grand Master (only) can also change the code in the user menu.

The Grand Master has most rights. For further information about the rights and options of other users, see under "Authority Levels" on page 8-55.

To access the Grand Master menu:

1. Select the **Code Maintenance menu** as described on page 8-54.
2. Under **Code Maintenance**, press 3 to access the **Grand Master** menu option. You see the following on the display:



3. Enter the new Grand Master PIN on the system keypad and then press #
4. Press * to exit the menu option.

NOTE:
The Grand Master, the installer and the sub-installer can enter and change PIN codes of other authorities.

8.5.4 [4] [4] Installer

Default: **0133**
With the installer PIN, you have access to the installer menu and thus the authority to change all system parameters. The installer code defined in the factory is: **[0][1][3][3]**
ABUS strongly recommends changing the PIN defined in the factory.

To access the Installer menu:

1. Select the **Code Maintenance** menu as described on page 8-54.
2. Under **Code Maintenance**, press [4] to access the **Installer** menu option. You see the following on the display:

   ```
   Installer
   Code: 0133
   ```

3. Enter the new Installer PIN on the system keypad and then press #
4. Confirm the new PIN by repeating the code, and then press #.
5. Press * to exit the menu option.

8.5.5 [4] [5] Sub-Installer

Default: 0233
With the sub-installer PIN, you have restricted access to selected items of the installer menu. Der vom Werk eingestellte Sub-Programmier Pin lautet: **[0][2][3][3]**
ABUS strongly recommends changing the PIN defined in the factory.

The restrictions on the sub-installer are as follows (the LCD display shows “Disabled” for each restricted menu item):

- System menu: No change of the menu option “Arm/Disarm”.
- Pin Code menu: No change of the installer PIN.
- Dialer menu: Can change redial of FM numbers only.

To access the sub-installer menu:

1. Select the **Code Maintenance** menu as described on page 8-54.
2. Under **Code Maintenance**, press [5] to access the **Sub-Installer** menu option. You see the following on the display:

   ```
   Sub-Installer
   Code: 0233
   ```

3. Enter the new sub-installer PIN on the system keypad and then press #
4. Press * to exit the menu option.

Using the sub-installer PIN code

This section describes how the sub-installer gains access to the sub-installer menu.

Using the Sub-Installer code:

1. From the user menu, press * **[9] [2]**.
2. Enter the sub-installer code and press #. The sub-installer now has restricted access to the installer menu.

8.5.6 [4] [6] Code Length

Default: four digits
Under **Code Length**, you can change the number of digits used (4 or 6) for the **Grand Master**, the **Manager** and the **Master**. All other PIN codes (user, Aktivieren??? and maid) use one to six digits.

To access the Code Length menu:

1. Select the **Code Maintenance** menu as described on page 8-54.
2. Under **Code Maintenance**, press [6] to access the **Code Length** menu option. You see the following on the display:

   ```
   Length:
   1) 4 digits
   ```

3. Press  to select and then press  to confirm your selection. If you change the code length, the following message appears:

   ```
   Code should be
   deleted. Sure? N
   ```

4. Press  to change the factory default setting from **[N]** to **[Y]** and then press .

NOTE:

If you change the **Code Length**, all user codes are deleted and then have to be redefined or downloaded.

In the case of a six-digit code length, the factory default four-digit codes such as **1-2-3-4** (Grand Master), **0-1-3-3** (installer), and **0-2-3-3** (sub-installer) are changed to **1-2-3-4-0-0**, **0-1-3-3-0-0**, and **0-2-3-3-0-0**.

If you change the **Code Length** back to four digits, the four-digit codes defined by the factory are restored.

8.6 5 Dialer

The **Dialer** menu enables you to transmit alarms as voice text by telephone. In this menu, you also make the settings necessary for programming the system via a modem. Some of the options in this menu cannot be selected since they are not active in this version. You can access the following submenus:

5 4 **UD Telephone number**, page 67

5 5 **UD Access and ID**, page 8-60

5 6 **Controls**, page 8-61

5 7 **Parameters**, page 8-63

5 9 **Follow Me)**, page 8-65

To access the Dialer menu:

- In the installer menu, press 5 or press ↵ or ↷ until you find the **[5] Dialer** menu option. Press #. The first submenu appears on the display:

  Dialer:
  1)Not active

  *You are now in the **Dialer** menu and can access the submenus as described in the following sections.*

8.6.1 5 4 U/D telephone number

Under **U/D telephone number**, you can define a telephone number in the system that is dialled for remote servicing of the system by PC.

To access the U/D telephone number menu:

1. Select the **Dialer** menu as described on page 8-60.
2. In the **Dialer** menu, press 4 and then enter the telephone number for remote servicing with up to 32 digits including local area and other codes.
3. Press #.
   If you do not want to service or program the system via a modem connection, no input is required here.

8.6.2 5 5 U/D Access and ID

Under **U/D Access and ID**, you can define an access PIN and a user ID for remote servicing of the **ABUS wireless alarm system**.

To access the U/D Access and ID menu:

1. Select the **Dialer** menu as described on page 8-60.
2. In the **Dialer** menu, press 5 to select **U/D Access and ID**. You see the following on the display:

   U/D Access & ID:
   1)Access code

3. Select and configure the settings in the **U/D Access and ID** menu as follows:

Access Code and ID		
Quick-Key	**Parameter**	**Default**
5 5 1	**Access code**	5678
	Defines an access code for remote programming. The four-digit access code in the system and the software must be identical. 1. Enter a four-digit access code. This code is stored in the **ABUS wireless alarm system**. 2. You have to enter the same code in the up/download software for access to this system. 3. Press 1 and enter the four-digit code. 4. Press #▲ to confirm.	
5 5 2	**Remote ID Code**	0001
	Under this menu option, you can enter a user ID for the corresponding access code. The four-digit ID in the system and the software must be identical. 1. Enter a four-digit access code. This code is stored in the **ABUS wireless alarm system**. 2. You have to enter the same code in the up/download software for access to this system. 3. Press 2 and enter the four-digit code. 4. Press #▲ to confirm.	

8.6.3 5 6 Controls

Under **Controls**, you define how telephone alarm transmission is controlled.

To access the Controls menu:

1. Select the **Dialer** menu as described on page 8-60.
2. Under **Dialer**, press 6 to access the **Controls** menu option. You see the following on the display:

```
DIALER control:
1)Not active
```

NOTE:

The menus of this option require you to enter **[Y] YES** or **[N] NO**.

3. Make the settings in the **Controls** menu as described below:
   - Select the menu options with the Quick-Keys or press ↵ and ↷.
   - Press 🔒 to switch between **[Y] YES** and **[N] NO** and then press #▲ to confirm. (Repeat this procedure for each parameter as required.)
   - Press * to exit the menu option.

Controls

Quick-Key	Menu option	Default
5 6 02	**FM Enable**	NO
	YES: Enables FM (= Follow Me) transmission. (See also Follow Me, page 8-65.) Enable this option to transmit alarms as voice messages by telephone. Disable this option if the system has no telephone connection, since otherwise a telephone error is reported. **NO:** No FM transmission is possible.	
5 6 03	**U/D Enable**	NO
	YES: Enables remote dialling of the up/download software by modem. Enable this option if you want to remote-service the system by modem and software. Disable this option if the system has no telephone connection, since otherwise a telephone error is reported. **NO:** No remote dial-in is possible.	
5 6 04	**Call Delay**	YES
	YES: Telephone transmission is delayed for 15 seconds. **NO:** Telephone transmission is immediate.	
5 6 05	**Dial Tone**	YES
	YES: The **ABUS wireless alarm system** checks before dialling whether a dial tone is available and does not dial until a dial tone is detected. If the system is connected to a PBX, set this option to “No”. **NO:** The **ABUS wireless alarm system** dials without waiting for a dial tone.	
5 6 07	**User initiated call**	YES
	YES: To enable up/download programming, the user has to confirm this every time on the system. **NO:** Upload/download programming is possible without confirmation by the user.	
5 6 08	**Call Back U/D**	YES
	YES: The **ABUS wireless alarm system** calls the programmed U/D callback number when the call is set up. This setting represents extra security. **NO:** No callback is made.	
5 6 09	**Auto Batch**	NO
	YES: The **ABUS wireless alarm system** calls the U/D callback number for an automatic download at a previously defined time. **NOTE:** To ensure that the Auto Batch setting works: The U/D computer must be switched on, connected with a telephone line, and have upload/download software. -AND- The call must be released. **NO:** Auto Download mode is activated.	

Controls

Quick-Key	Menu option	Default
5 6 10	**Answering Machine Override**	YES

YES: Answering machine override is activated.

- The upload/download software calls the **ABUS alarm system**.
- The software hangs up following a ring by the U/D user.
- The software calls again within one minute.
- The **ABUS wireless alarm system** is programmed to answer this second call immediately and not forward the call. The function of the number of calls for U/D is deactived.

NOTE:

This property is used to prevent problems with a rear-position answering machine or fax machine with remote-controlled upload/download operation.

NO: The **ABUS wireless alarm system** accepts the call following a specified number of U/D calls.

8.6.4 5 7 Parameters

Under **Parameters**, you have further options for setting the telephone alarm transmission of your **ABUS wireless alarm system**.

To access the Parameters menu:

1. Select the **Dialer** menu as described on page 8-60.
2. Under **Dialer**, press 7 to access the **Parameters** menu option. You see the following on the display:



3. Select the menu options in the **Parameters** menu as in the table below:
   - Select menu options with the keypad or press  or  to access the corresponding menu option.
   - Change the setting accordingly and/or confirm the value already entered by pressing .
   - Press  to exit the menu.

Dialer: Parameter

Quick-Key	Parameter	Default	Range
5 7 2	**FM Retries**	03	01 to 15
	Defines the number of repeated call attempts by the alarm system in the event of an alarm.		
5 7 3	**Rings to U/D**	12	01 to 15
	Defines the number of ringing tones before the **ABUS wireless alarm system** accepts the call.		
	NOTE: This feature is deactivated if the **Answering Machine Override** option is enabled (see page 8-63).		
5 7 4	**Dial Tone Time**	6 seconds	6 or 9 seconds
	Defines the length of time the **ABUS wireless alarm system** waits for a dial tone if this is programmed. (See also page 8-62.)		

Dialer: Parameter

Quick-Key	Parameter	Default	Range
5 7 4 1	**Wait 6 seconds**		
	Press 1 followed by #.		
5 7 4 2	**Wait 9 seconds**		
	Press 2 followed by #.		
5 7 5	**Redial wait**	30 seconds	30 or 60 seconds
	The number of seconds between a redial of the same number.		
5 7 5 1	**Wait 30 seconds**		
	Press 1 followed by #.		
5 7 5 2	**Wait 60 seconds**		
	Press 2 followed by #.		
5 7 6	**Dialing method**	DTMF	DTMF (Touch Tone ®), pulse 20 BPS and pulse 10 BPS
	Select DTMF (Dual-Tone Multi-Frequency) as the dial method. Pulse dialling is necessary only for a few older PBXs.		
5 7 6 1	**DTMF (Touch Tone ®)**		
	Press 1 and then # to activate the DTMF dial method.		
5 7 6 2	**Impulses @ 20 BPS (pulses per second)**		
	Press 2 and then # to activate the pulse dialling 20 BPS method.		
5 7 6 3	**Impulses @ 10 BPS (pulses per second)**		
	Press 3 and then # to activate the pulse dialling 10 BPS method.		
5 7 7	**Pulse Duty Cycle**	61/39%	67/33% and 61/39%
	Further settings are necessary only for the pulse dialling method.		
5 7 7 1	**67/33%**		
	Press 1 and then # for European telephone systems.		
5 7 7 2	**61/39%**		
	Press 2 and then # for American telephone systems.		

Dialer: Parameter

Quick-Key	Parameter	Default	Range
5 7 8	**Swinger Limit**	00	00 to 15

The Alarm Limit option is provided to prevent multiple triggering on a zone within the activated time. Setting 01: A triggered zone is not transmitted again if this has already happened. If you raise the limit, the alarm is transmitted according to your setting.

NOTE:

Enter 00 to disable the alarm abort. Every time the zone triggers, the alarm is transmitted again.

5 7 9	**Periodic Test**		

Defines a time in which the **ABUS wireless alarm system** calls the UD numbers to test the telephone connection. This feature is possible only if a PC with active software is ready to receive.

5 7 9 2	**UD Test**	Hr:00 Min:00	00-24 hours 00-59 minutes

Under this option, enter the following: The time for the periodic test call (in 24-hour format) and the frequency interval.

To program the test time and the intervals for periodic transmissions:

1. Press 2. You see the following on the display:



2. Enter the time in 24-hour format.
3. Define the frequency interval (D) according to the table below. The first test call starts on the day of programming.

D	Meaning
0	Never
H	Hourly
M	Monthly
1	Daily
2	Every second day
3	Every third day
4	Every fourth day
5	Every fifth day
6	Every sixth day
7	Every seventh day

4. Press * to exit the menu option.

5 7 0	**More**		

This menü determines when the system should transmit the reset message. You can select between three possibilities:

1 on BTO (bell time out) , 2 follow zone, 3 at disarm

8.6.5 5 9 Follow Me (FM)

Under this menu option, you define the forwarding of an alarm as a voice text to a telephone or a security service. In the event of an alarm, the **ABUS wireless alarm system** calls the programmed FM numbers and transmits the alarm message according to the event. There are two variants of this FM feature:

- **Standard Phone Call:** The **ABUS wireless alarm system** transmits the alarm message as a voice text to programmed numbers, depending on the event. (See also *User Functions* in the *User Guide*.)
- **Call to Pager:** The **ABUS wireless alarm system** can also send an alarm to a pager. The alarm is transmitted in the form of alphanumeric characters. (See also under **Pager** in the **System Control** menu.)

Under this menu option, you define the events for which a call is made.

NOTE:

The FM (= Follow Me) function must be enabled for a call to be made. (See under FM enable, page **Fehler! Textmarke nicht definiert.**).**Fehler! Verweisquelle konnte nicht gefunden werden.Fehler! Verweisquelle konnte nicht gefunden werden.**

You program the alarm numbers in the user menu. (See under *user functions* in the *user manual*.)

To access the FM menu:

1. Select the **Dialer** menu as described on page 8-60.
2. Under **Dialer**, press 9 to access the **FM** menu option.
3. Press  or  to select the FM number and press  to confirm.

Follow-Me

Quick-Key	Parameter		Default
5 9 1	**Events**		
	Define the events that trigger a call. Press  or  to select an event and press  to select whether this event is to be transmitted by phone: **[Y] YES** or **[N] NO**.		
	[01]	Intruder	Y
	[02]	Fire	Y
	[03]	Emergency	Y
	[04]	Panic	Y
	[05]	Tamper	N
	[06]	Remote programming	N
	[07]	Ac Off	N
	[08]	Duress	Y
	[09]	Arm	N
	[10]	Disarm	N
	[11]	Bypass	N
	[12]	Wireless Lost	N
	[13]	Wireless Low Batt	N
	[14]	Bell Trouble	N
	[15]	False Code	N
	[16]	Low Battery	N
	[17]	Wireless Jamming	N
	[18]	BUS Trouble	N

Quick-Key	Parameter	Default
	After defining all alarm events, press #↑ to save your settings. To discard your settings, press *.	
5 9 2	**Events restore**	
	Defines whether a new call is made if the event (from section 5.9.1) is reset. Press ↵ or ↱ to select an event and press 🔒 to select whether this event is to be transmitted by phone: **[Y] YES** or **[N] NO**.	
	[01] Intruder	Y
	[02] Tamper	N
	[03] AC Off	N
	[04] Wireless Lost	N
	[05] Wireless Low Battery	N
	[06] Bell Trouble	N
	[07] Low Battery	N
	[08] Wireless Jamming	N
	[09] BUS Trouble	N
	After defining all events, press #↑ to save your settings. To discard your settings, press *.	

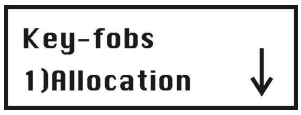
8.7 [7] Key-fobs

Under **key-fobs**, you learn how to train up to eight 4-button key-fobs with rolling code to work with the **ABUS wireless alarm system**. With the wireless key-fob/remote control, you can activate/deactivate the system, trigger a panic alarm, and control a switch output. The following is an overview of the menu options according to their sequence in the **key-fobs** menu:

[7] [1] **Allocation**, page 8-68
[7] [2] **Parameters**, page 8-69
[2] [3] **Communication Test**, page 8-70

To access the Key-fob menu:

1. In the installer menu, press [7] or press  or  until you find the **[7] key pad** menu option. Press . You see the following on the display:

   *You are now in the **Key-fobs** menu and can access the submenus as described in the following sections.*

8.7.1 [7] [1] Allocation

Under this menu option, you train the 4-button key-fobs.

To access the Allocation menu:

1. Select **key-fobs.**
2. Under **key-fobs**, press [1] to access the **Allocation** menu option. You see the following on the display:

3. On the alarm system, select the number of the remote control you want to train and press .
4. To train the remote control:
   - Press [1] to go to the next remote control.
   - Press [2] to train a new remote control or overwrite an already trained remote control. Send a training signal (within 255 seconds) from the remote control by pressing the 🔒 (activate) button on the remote control for at least 2 seconds. Every time you press a button, the LED of the remote control lights up. When the **ABUS wireless alarm system** has successfully trained the remote control, you hear a short beep as confirmation.
   - Press [3] to delete the selected remote control. Press  to select either **[Y]** or **[N]** to make your selection, and then press  to confirm.
5. Repeat steps 2 to 4 to train further remote controls.

8.7.2 7 2 Parameters

Under **Parameters**, you program the function and the keys of the remote control. The four buttons of the remote control can be adapted to individual requirements.

To access the Parameters menu:

1. Select the **Key-fob** menu as described on page 8-68.
2. Under **Key-fob**, press 2 to access the **Parameters** menu option. You see the following on the display:

   ```
   Key-fob params.:
   Select=1      (1-8)
   ```

3. Select the remote control you want to reprogram and press #.

Reprogramming a remote control

Every remote control has 4 buttons, and each button can be programmed for a different function.

To change the settings of the remote control:

1. Assign to every remote control the areas you want to operate with it. The letter "**Y**" under the number means that the remote control can operate this area. To change the setting, press 1, 2 or 3.

   ```
   P=123      KF=1
     YYY
   ```

2. Press # to confirm. You see the following on the display:

   ```
   Key-fob:1  Butt:1
   1)Arm
   ```

3. For button 1 (🔒), you can choose between the following functions:
   - **None:** The button is not activated.
   - **Arm:** The button externally activates all previously selected areas.
   - **Stay:** The button internally activates all previously selected areas.

   To select the functions, press ↵ or ↻. To confirm, press #.
4. Now select between whether an exit delay time starts at activation **(Verzögert J???)** or whether your system is activated immediately **(Verzögert N???)**.
5. Press #. The system goes automatically to the next button and you see the following on the display:

   ```
   Key-fob:1  Butt:2
   1)Disarm
   ```

6. For button 2 (🔓), you can choose between the following functions:
   - **None:** The button is not activated (default).
   - **Disarm:** The button is used to disarm selected partitions.
7. After selecting an option for the button, press #. The system automatically goes to the next button.

8. You see the following on the display:

```
Key-fob:1  Butt:3
2)Panic
```

9. For button 3 (small button), you can choose between the following functions:
   - **None:** The button is not activated (default).
   - **Panic:** The button triggers a panic alarm.
   - **Utility Output:** The button activates a utility output.

   If you select the switch output function and confirm it with #, you see the following on the display:

```
Fob:1  Butt:3 UO:
01)Output 01
```

   Select a utility output with ↵ or ↱ and confirm your selection with #.

10. The system changes automatically to the next button and the you see the following on the display:

```
Key-fob:1  Butt:4
1)Stay
```

11. For button 4 (large button), you can choose between the following functions:
    - **None:** The button is not activated (default).
    - **Arm:** The button activates all previously selected areas.
    - **Stay:** The button internally activates all previously selected areas.
    - **Utility Output:** The button activates a utility output. You can then program the utility output as described above.

12. Press # to confirm.
13. Repeat the programming steps for all other key fobs.

8.7.3 7 3 Communication Test

Under **Communication Test**, you can see the signal strength of the remote control.

To access the Communication Test menu:

1. Select the **Key-fob** menu as described on page 7-74.
2. Under **Key-fob**, press 1 to access the **Communication test** menu option. You see the following on the display:

```
K-fob comm.test
1)Key-fob 1: -- ↓
```

3. Press ↵ or ↱ to select the remote control you want to test.
4. Press a button on the remote control. The display shows the strength of the received signal.

NOTE:

For successful transmission, the signal strength should be higher than the noise level of the receiver. (See also page **Fehler! Textmarke nicht definiert.**.)

Press * to exit the menu option.

8.8 [8] Keypads

Under **Keypads**, you can assign two operating panels to the **ABUS wireless alarm system**. The following is an overview of the menu options according to their sequence in the **Keypads** menu:

[8] [1] **Allocation**, page 7-77

[8] [2] **Communication test,** page 7-77

To access the Keypads menu:

- In the installer menu, select [8] or press  or  to access the corresponding menu option.

  Press  **.** You see the following on the display:

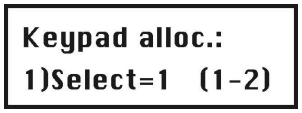
  You are now in the operating panels menu and can access the submenus as described in the following section.

8.8.1 [8] [1] Allocation

Here you can train a new wireless keypad for your system.

To access the Keypads allocation menu:

1. Select the **Keypads** menu.
2. Under **Keypads**, press [1] to access the **Allocation** menu option. You see the following on the display:

3. On the alarm system keypad, select the number of the wireless operating panel you want to train and press .
4. The following three menu options are available:
   - Press [1] to train the next wireless keypads.
   - Press [2] to train a keypad. Send a learn signal from your wireless keypad by pressing the activation button on the keypad twice. When you press a button, you hear a short beep in confirmation, and the send LED light up briefly.
     When your ABUS wireless alarm system has successfully trained the keypad panel, the wireless alarm system confirms this with a short beep.
   - Press [3] to delete wireless keypads. Press  to select either **[Y]** or **[N]**, and then press  to confirm.
5. Repeat steps 2–4 to train further wireless keypads.

8.8.2 8 2 Communication Test

Under **Communication Test** you test the radio communication between your wireless operating panel and the system.

To access the Communication test menu:

1. Select the **Keypads** menu as described above.
2. Under **Keypads**, press 2 to access the **Communication test** menu option. You see the following on the display:



3. Press or to select the wireless operating panel you want to test.
4. Press the activation button on the wireless operating panel. The display shows the strength of the received signal.

NOTE:

For successful transmission, the signal strength should be higher than the noise level of the receiver. (See also page **Fehler! Textmarke nicht definiert.**.)

Press * to exit the menu option.

8.9 9 Siren

Under **Siren**, you can assign 3 sounders to the **ABUS wireless alarm system**. You can choose between internal wireless sounders and external wireless sounders. The following is an overview of the menu options according to their sequence in the **Sirene** menu:

9 1 **Allocation**, page 8-75
9 2 **Parameter**, page 8-76
9 3 **Comm. Test**, page 8-77
9 4 **Calibration**, page 8-77
9 5 **Tamper Mute**, page 8-78

To access the Sirene menu:

- In the installer menu, select 9 or press or to access the corresponding menu option.

  Press #. You see the following on the display:



  You are now in the Siren menu and can access the submenus, as described in the following section.

8.9.1 9 1 Allocation

Here you can allocate a new sounder to your system.

To access the Allocation menu:

1. Select the **Siren** menu.
2. Under **Siren**, press 1 to access the **Allocation** menu option. You see the following on the display:

   ```
   Ext. Sounder
   ID=1  TYPE=NONE
   ```

3. Press  to select the type of sounder you want to train. Two types are available:
   - **INWS**: internal wireless sounder
   - **ODWS**: outdoor wireless sounder
4. Select a sounder type and press . You see the following on the display:

   ```
   Siren=1
   Sound?          Y
   ```

5. Press  to make the following settings for the selected sounder. After each setting, confirm your selection with .
   - **Sound**: Set to **Y** to activate the sounder in the event of an alarm.
   - **Squawk**: If you set this option to **Y**, the sounder emits an acknowledgement signal when it is successfully activated/deactivated.
   - **Squawk strobe** (external sounders only): If you set this option to **Y**, the sounder emits a visual acknowledgement signal when it is successfully activated/deactivated.
6. After confirming all your settings, you see the following on the display:

   ```
   Siren=1 (empty)
   2)(Re)Write      ↕
   ```

7. Confirm the **Write** menu option with  and your alarm system waits for a signal from your sounder. Send a message from the sounder.
8. *Insert all batteries in the sounder. Press the Reset key for five seconds. Then press the lid contact of the sounder and keep it pressed until the system receives the signal.* You see the following on the display:

   ```
   Supervision
   1)No             ↓
   ```

9. Press  or  to select whether the sounder is to be monitored or not, and confirm your selection with .
   The sounder is now ready for operation.
10. The following menu has four menu options:
    - **Skip:** Select another sounder.
    - **(Re) Write:** Train another sounder instead of the already sounder.
    - **Delete:** Delete a sounder.
    - **Supervision:** Change the setting for monitoring the sounder.

8.9.2 9 2 Parameter

Under this menu option, you can change the sounder settings. You can change the following settings:

- Volume
- Flash frequency (external sounders only)

To access the Parameter menu:

1. Select the **Siren** menu.
2. Under **Sirene**, press 2 to access the **Parameter** menu option. You see the following on the display:

   ```
   Sounder selection
   Siren ID=1
   ```

3. Press  to select the sounder whose settings you want to change and confirm with . You can now choose between the settings for the volume and the flash frequency (external sounders only).
4. Select **Volume** and confirm with . You see the following on the display:

   ```
   Siren 01 define
   1)Volume
   ```

5. You can now set the volume for the following signals:
   - Entry/exit signal
   - Alarm signal
   - Acknowledgement signal
6. Confirm with  and enter the new volume on the keypad of the system. The setting means:
   - 0: Off
   - 1: Quiet
   - 9: Loud

Enter the volume for the other signals in the same way. You can then set the flash frequency for the external sounder.

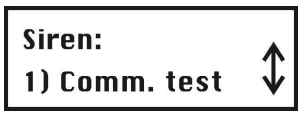
Press  to exit the menu option.

8.9.3 9 3 Communication test

Under **communication test** you test the radio communication between your sounder and the system.

To access the communication test menu:

1. Select the **Siren** menu as described above.
2. Under **Siren**, press 3 to access the **communication test** menu option. You see the following on the display:



3. Confirm with #. The system now searches for the wireless sounders and then shows the signal strength of each sounder on the display.

NOTE:

For successful transmission, the signal strength should be higher than the value of the receiver defined under "Calibration" (see below).

Press * to exit the menu option.

8.9.4 9 4 Siren Receiver Calibration

Under **sirene receiver calibration**, you can adjust the reception quality of the sounders. Since this communication is based on a different wireless technology, a different value is possible here than when you calibrate the receiver for the wireless transmitter. The level is between 0 and 99. The lower the value, the better the radio communication between the system and the sounder.

To access the sounder receiver calibration menu:

1. Select the **Siren** menu as described above.
2. Under **Siren**, press 4 to access the **siren receiver calibration** menu option. You see the following on the display:



3. Confirm with #. The system now recalibrates the radio threshold.
4. Confirm the new threshold with #.
5. To make a new calibration, press to change to **Y** and confirm with #.

Press * to exit the menu option.

8.9.5 9 5 Tamper Mute

Under **Tamper Mute**, you can deactivate the tamper function of the sounder for the current programming process. This enables you to open the sounder without triggering a tamper alarm. Enable this function if you want to open the sounder case, for example to change the batteries.

To access Tamper Mute menu:

1. Select the **Sirene** menu as described above.
2. Under **Sirene**, press 5 to access the **Tamper Mute** menu. You see the following on the display:



3. Confirm with #↑. The system now sends a message to all sounders and the tamper function is disabled until you finish programming.

NOTE:

If a tamper alarm has already been triggered, it cannot be stopped by this function. Exit the installer menu and deactivate the system or remove the batteries from the sounders.

4. When you exit the installer menu, the tamper function is automatically reactivated on all sounders.

Press * to exit the menu option.

8.10 [0] Exit Programming

Under **Exit Programming**, all your settings in the installer menu are saved and you exit the installer menu.
Important: The settings you make in the installer menu are not saved until you exit the installer menu correctly.

NOTES:

To be able to exit the installer menu, the **J9** jumper plug must be plugged on to one pin.

To access the Exit Programming menu:

1. In the installer menu, press [0] or press  or  until you find the **[0] Exit Programming** menu option. You see the following on the display:

   This is the last option in the installer menu.

   Press . You see the following on the display:

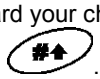
2. Save or discard all your settings/changes:

   Save your changes by pressing . You see the following on the display:

   The **ABUS wireless alarm system** returns to the normal user display.

   OR:

   Discard your changes by pressing  to change the **[Y] YES** to a **[N] NO** on the display and then press . The **ABUS wireless alarm system** returns to the normal user display.

Chapter 9 Programming within the user programming menu

This chapter explains an important menu option in the user menu. This menu option is for **programming voice messages** and **conducting a walk test**.

9.1 Programming voice messages

Your **ABUS wireless alarm system** can issue system events locally and by telephone using voice messages. This greatly simplifies operating the system and enables remote control of the system by telephone. The **voice message** menu option is in the user menu. Only a user with the Grand Master PIN or an installer PIN has the authority to change voice messages. The **voice message** menu has the following submenus:

7 1 **Message structure,** page 8-80

7 2 **Voice labeling**, page 9-79

7 3 **Test message**, page 9-84

7 4 **Local Announcement Messages**, page 9-85

To access the voice message menu:

1. Press * to enter the user menu. The press 7 or press ↵ or ↱ until you see the **voice message** menu option, and then press #▲.
2. Enter the installer PIN or the Grand Master PIN on the keypad and press #▲.
3. The first submenu appears on the display:



*You are now in the **voice message** menu and can access the submenus as described in the following sections.*

Types of voice message

The following three types of voice message can be generated by your **ABUS wireless alarm system**:

- **Event message:** In the case of an alarm or an important event, your **ABUS wireless alarm system** calls the defined FM numbers and transmits the event as a voice text by telephone. This event message consists of four modules that you can define according to your requirements:
  - **General message:** a general identification message that tells the listener where the call comes from. The factory setting is: *"Hallo, this is your ABUS security system calling."*
  - **Event message:** an automatically generated alarm-related voice message describing the alarm/event, e.g., *"fire alarm"*.
  - **Area message:** if you have divided your wireless alarm system into several areas, the message tells you where the event has occurred, e.g., *"residential area"*.
  - **Zone message:** an automatically generated alarm-related voice message used for identifying the zone that triggered the alarm, e.g., *"bedroom"*.

  A complete event message can be: *"Hallo, this is your ABUS security system calling, fire alarm, residential area, bedroom."*

- **Status message:** The status message gives you an overview of the state of your wireless alarm system – i.e., whether faults exist, which partitions are activated, and which partitions are ready to be activated.

- **Local message:** Like event messages, your **ABUS wireless alarm system** also issues messages as voice text over the local loudspeaker.

9.1.1 7 1 Message structure

Under **Message structure**, you define the sequence in which the voice messages are transmitted.

To define a message structure:

1. Select the **voice message** menu as described above.
2. In the **voice message** menu, press 1 to access the **message structure** menu option. You see the following on the display:



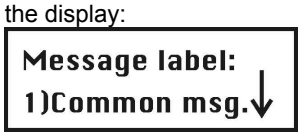
3. Press  to select one of the following structure types.
   - **[A] (C/E/P/Z)** Specifies the sequence of messages as follows: **Common, Event, Partition, Zone**
   - **[B] (E/P/Z/C)** Specifies the sequence of messages as follows: **Event, Partition, Zone, Common**

9.1.2 7 2 Voice message labels

Under **voice message leabels**, you define names for zones, partitions, utility outputs and macro keys, and you find out how to play and record common messages.

To define a voice message:

1. Select the **message label** menu.
2. In the **voice message** menu, press 2 to access the **message label** menu option. You see the following on the display:



3. You can now enter a name for the voice message for each of the following options:
   [1] Common message
   [2] Zone message
   [3] Partition message
   [4] Utility output message
   [5] Macro message

   Press ↵ or ↷ to select, and confirm with #.

Voice message: message name

Quick-Key	Parameter	Default	Range
7 2 1	**Common message**		

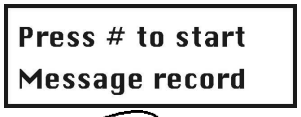
Press 1. You see the following on the display:



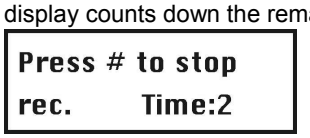
The following options are available:

- Press 1 to play the common message. *You hear the message over the system loudspeaker. The factory default is "Hallo hier ist Ihr ABUS Sicherheitssystem."???*

  Press 2 to record a new message. You see the following on the display:



  Press # and speak your message into the microphone. The counter on the display counts down the remaining seconds until the recording time expires.



  Recording stops automatically after 10 seconds. If you want to stop recording earlier, press #.

NOTE:

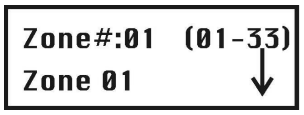
If you do not press # as soon as your recording is finished, you may have unwanted noise or a long pause in your message.

Press * to exit the menu option.

Voice message: message name

Quick-Key	Parameter	Default	Range
7 2 2	**Zone message**		

Press 2. You see the following on the display:

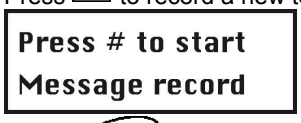


Press or to select a zone and then press .

The following options are available:

- Press 1 to play the zone annoucement. *You hear the announcement over the system loudspeaker. The factory default for Zone 1 is "Haustüre".???*

  Press 2 to record a new text. You see the following on the display:

  Press and speak your message into the microphone. The counter on the display counts down the remaining seconds until the recording time expires.

- Recording stops automatically after 2 seconds. If you want to stop recording earlier, press .
- You now have to assign this announcement to a zone.
- Press 3. Press or to select a zone and then press .
- You can change the zone name in the installer menu. The recording and the zone name should be identical.

Quick-Key	Parameter	Default	Range
7 2 3	**Partition Message**		

Press 3. You see the following on the display:

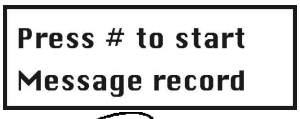


Press or to select a partition and then press .

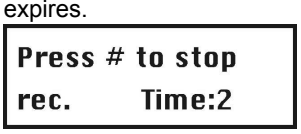
The following options are available:

- Press 1 to play the partition announcement. *You hear the announcement over the system loudspeaker.*

  Press 2 to record a new text. You see the following on the display:

  Press and speak your message into the microphone. The counter on the display counts down the remaining seconds until the recording time expires.

- Recording stops automatically after 2 seconds. If you want to stop recording earlier, press .
- You now have to assign this announcement to a zone.

  Press 3. Press or to select a zone and then press .

Quick-Key	Parameter	Default	Range
7 2 4	**Utility output message**		

NOTE:

The switch output must be defined as an FM code in order to be able to allocate a voice message to it. See also *Follow User Code.*

Press 4. You see the following on the display:

```
UO message:
1)UO 1 message↓
```

Press ↵ or ↱ to select a switch output and then press #. You see the following on the display:

```
Choose UO
1)None          ↓
```

The option in the **Choose UO** menu presents the **FM Code** switch outputs. Select the number of the appropriate switch output for the message selected in step 3, or select **00** if you do not want to allocate a message to the switch output.

7 2 5	**Macro Message**		

Press 5. You see the following on the display:

```
Choose macro
Macro:A       (A-C)
```

Press ↵ or ↱ to select a macro and then press #.

The following options are available:

- Press 1 to play the macro announcement. *You hear the announcement over the system loudspeaker.*

  Press 2 to record a new text. You see the following on the display:

```
Press # to start
Message record
```

Press # and speak your message into the microphone. The counter on the display counts down the remaining seconds until the recording time expires.

```
Press # to stop
rec.      Time:2
```

- Recording stops automatically after 2 seconds. If you want to stop recording earlier, press #.

9.1.3 7 3 Test Message

Under **Test Message**, you can test recorded and assigned voice announcements.

To conduct a Test message:

1. Select the **Voice message** menu.
2. In the **Voice message** menu, press 3 to access the **Test Message** menu option. You see the following on the display:



3. Conduct the test locally or by telephone as follows:

Voice message: Message test

Quick-Key	Parameter	Default	Range
7 3 1	**Send message**		

Under this menu option, you can transmit a test message to a previously programmed FM number.

To send a test message:

1. Press 1. You see the following on the display:



2. Press  or  to select the FM number to which you want to send the test message. You see the following on the display:



The ABUS alarm system calls the FM number and you hear the following test message: ***"Test Message"***.

7 3 2	**Local Play**		

Under this menu option, you can play voice messages locally over the loudspeaker of your **ABUS wireless alarm system**.

To play a test message locally:

1. Press 2. The voice message ***"Test Message"*** is repeated for 90 seconds and the following message appears on the display:



Press any button to stop the playback.

9.1.4 7 4 Local Announcement Messages

Under this menu option, you adapt local voice announcements to your requirements.

To activate/deactivate local voice announcements:

1. Select the **Sprachmitteilungen**??? menu.
2. In the **Sprachmitteilungen???** menu, press 4 to access the **lokale Sprachmitteilungen???** menu option. You see the following on the display:



3. Press  or  to select a local announcement, and activate/deactivated the selected announcement by pressing  to select one of the following options:
   - **[N]**: To deactivate the local voice announcement.
   - **[Y]**: To activate the local voice announcement.

Event	Default	
1) Intruder	Y	
2) Fire	Y	
3) Emergency	Y	
4) Panic	Y	
5) Auto Arm	Y	
6) Arm Process	Y	
7) Arm (Away)	Y	
8) Arm (Internal)	Y	
9) Disarm	Y	
10) Entry delay	Y	
11) Menu	Y	(Message generated if you use the function keys of the operating panels.)
12) New trouble	Y	
13) Walk test	Y	

9.2 Walk test

Under the **Walk test** menu option, you can test your installation. When the system is in walk-test mode, you can trigger detectors without setting off an alarm. The walk test mode can be started in two ways:

- Installer PIN
- Grand Master PIN

NOTE:

The difference between a walk test started with an installer PIN and a walk test started with the Grand Master PIN is the way your **ABUS alarm system** reacts to a tamper message. If the walk test is started with the installer PIN, there is only a message on the display in the case of a tamper. If the walk test is started with the Grand Master PIN, there is a message and an audible alarm.

To conduct a walk test:

1. Make sure that your **ABUS wireless alarm system** is disarmed
2. Press * to access the user menu, followed by 4 to access the **Functions** menu option.
3. You are prompted to enter a user code (PIN). Enter the 4/6-digit Grand Master PIN or the installer PIN and then press #.
4. Under **Functions**, press 2 to access the **Walk Test** menu option. The system issues the following message "*System in Test Mode"*. You see the following on the display:

   ```
   Start walk test
   Done, Hit a key
   ```

5. Now trigger all detectors you want to test. After a detector has sent its signal and this is received by your system, the system confirms receiving the signal by announcing the zone number and name as a local voice message: e.g. "*Zone 3, dining room".* In addition, all tested detectors appears in a list on your system display.
6. Press # to exit walk test mode.
   The system issues the following message: "*End of Test Mode"*
7. Press * to exit the user menu.

Chapter 10 Accessories for your ABUS wireless alarm system

The following is a list of accessories for your **ABUS wireless alarm system**.

Wireless motion detector
The wireless motion detector is used for protecting entire rooms. With its infrared element, it can monitor an area of 15 x 15m with an angle of vision of 90°.

Pet-immune wireless motion detector
The pet-immune wireless motion detector, like the normal wireless motion detector, is used for protecting entire rooms. In contrast to the standard model, the pet-immune detector does not trigger an alarm for dogs up to 30kg, cats, and smaller pets.

Wireless water detector
The wireless water detector detects water that has escaped from washing machines and drains and thus prevents even greater damage. The water detector has a 2m cable that allows it to be installed flexibly.

Wireless vibration detector
The wireless vibration detector monitors windows and walls for strong vibrations, caused for example by attempts to lever a window out. It can also protect safes against drilling.

Wireless opening contact detector
The wireless opening contact monitors windows and doors for unauthorised opening. The small, compact design of the magnet allows it to be used almost anywhere.

4-button wireless remote control
The 4-button wireless remote control is used for activating and deactivating your wireless alarm system. The other 2 buttons can be freely programmed, for example to trigger a panic alarm, activate a switch output, or activate the system internally. **You can use up to eight 4-button wireless remote controls.**

Wireless key pad
The wireless key pad is also used for activating and deactivating your wireless alarm system. You can also trigger panic and fire alarms, and make a medical emergency call. **You can use up to two wireless key pads.**

Wireless key switch
The wireless key switch is installed externally and is used for activating and deactivating your wireless alarm system with a key.

Internal wireless sounder
The internal wireless sounder alerts the occupants of the house to burglary and fire with a very loud signal. Its very loud tone also causes a high stress potential in the intruder, who then normally abandons the object as fast as possible.

External wireless sounder
The external wireless sounder triggers a loud alarm on burglary or fire and thus alerts the local neighbourhood. It also deters potential burglars in advance. Its strobe light can guide security personnel reliably to the scene of the crime, especially at night.

Chapter 11 Brief guide

This chapter explains the installation steps shown on the DVD for the ABUS wireless alarm package including a smoke detector. After you have taken the installation steps shown in this guide, your ABUS wireless alarm system is completely operational.

11.1 Hardware installation

11.1.1 ABUS wireless alarm system

- Install the ABUS wireless alarm system in a suitable place in your object.
- Plug the power supply unit into the **AC socket** of the wireless alarm system. Do **not** plug in the mains plug yet.
- Connect the telephone line with either a RJ11 telephone plug or two loose cables to the telephone connector of the system (Line).
- Place the standby batteries provided in the battery holder and then plug this into the wireless alarm system.
- Plug the jumper plug of jumper **J10** on the mainboard on to both pins to charge the batteries.
- Now plug the power supply unit into the mains socket.

The wireless alarm system starts up and soon reports "System is on". If not, check that the power supply unit is plugged in, that there is current at the mains socket, and the power supply unit plug is correctly plugged into the wireless alarm system. *The fault LED flashes since the time and date have not yet been entered and the batteries are not fully charged. The batteries should be fully charged after 12 hours.*

- If the system issues an audible alarm when it is switched on, the tamper contact may not be properly pressed. In this case, do the following:
  - Enter the factory default **Grand Master PIN** on the system keypad: **1** **2** **3** **4**
  - Press the "**Disarm** button: 

The ABUS wireless alarm system is now ready for programming.

11.1.2 Wireless opening detector

- Install the wireless opening detector at the top centre of the door to be monitored. The magnet is fixed to the movable part of the door. The magnet and the opening detector must be arranged parallel to each other.
- Insert the battery supplied (check polarity!).
  The red LED of the detector lights up.
  If not, check that the battery is correctly inserted and measure the battery voltage, which must be above 2.8V.
- Press in the spring of the detector and close the door.
  When you open the door, the LED lights up again.
  Wait until the LED switches off, then close the door.
  The LED must light up again. If not, the magnet and the transmitter are incorrectly positioned or too far apart.

11.1.3 Wireless motion detector

- Install the wireless motion sensor in the corner of a room with a terrace or balcony. The sensor must point into the room and should not be directed towards large window areas. The red LED of the detector faces up.
  IMPORTANT: The infrared detector reacts to heat movement. Therefore, do not point the sensor to fan heaters or other heat sources. Pets such as cats and dogs can also trigger the detector.
- Insert the battery supplied (check polarity!).
  The red LED of the detector lights up.
  If not, check that the battery is correctly inserted and measure the battery voltage, which must be above 2.8V.

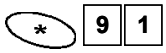
11.1.4 Wireless smoke detector

- Install the wireless smoke detector in the centre of your bedroom ceiling. Further smoke detectors should be fitted in the living room and the entrance hall. Smoke always rises first to the highest point of the room.
  IMPORTANT: Thick cigarette smoke or water vapour (steam) can trigger the detector.
- Insert the two batteries supplied (check polarity!) and press the test button. Keep the button pressed until the smoke detector issues a long beep.
  If it does not, remove the batteries and wait 30 seconds. Insert the batteries again and repeat the test.
  If it fails again, measure the voltage of both batteries. It must be above 2.8V.
- **Remove the batteries.**

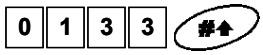
11.2 Training the detectors for the ABUS wireless alarm system

11.2.1 Installer menu of the ABUS wireless alarm system

- First press the star button, followed by 9, followed by 1.

- You are asked to enter the installer PIN code for the installer menu. The default setting is **0133**. Enter this installer PIN and confirm your input with the lozenge button.

  You are now in the installer menu and see the following display:

11.2.2 Allocate detectors

- Press 2.
  You are in the Zones menu option.
- Press 1 followed by 01 followed by # followed by 2. Press #.
  The system waits for a signal from the detector.

- Press the spring of the wireless opening detector and keep it pressed until the system receives the message from the detector (normally within 15 seconds).
  The system acknowledges that it has received the signals with a beep.
  If not, repeat the procedure.
  If the repeated attempt is unsuccessful, you are outside the radio transmission range. Reduce the distance between the system and the detector until the learning process is successful.
- Now press # to complete the leaning process for this detector.
  The system acknowledges this with a long beep.
- To train the next detector, press # followed by 2. Press #.
  The system waits for a signal from the next detector.

- Press the lid contact of the wireless motion sensor and keep it pressed until the system receives the message from the detector (normally within 15 seconds).
  The system acknowledges that it has received the signals with a beep.
  If not, repeat the procedure.
  If the repeated attempt is unsuccessful, you are outside the radio transmission range. Reduce the distance between the system and the detector until the learning process is successful.
- Now press # to complete the leaning process for this detector.
  The system acknowledges this with a long beep.
- To train the next detector, press # followed by 2. Press #.
  The system waits for a signal from the next detector.

- Insert the two batteries in the wireless smoke detector and wait until the system receives the learn message from the detector (normally within 15 seconds).
  The system acknowledges that it has received the signals with a beep.
  If it does not, remove the batteries and wait 30 seconds. The repeat the procedure.
  If the repeated attempt is unsuccessful, you are outside the radio transmission range. Reduce the distance between the system and the detector until the learning process is successful.
- Now press # to complete the leaning process for this detector.
  The system acknowledges this with a long beep.
- Press * **twice** to complete the learning process. *You see the following in the display:*

11.2.3 Programming zones

You do not have to program the zones for the detectors in your package. They are already programmed for you as follows:

No.	Zone name	Zone type	Detector type	Partition	Message
1	Zone 1	Entry(o)Exit (30sec/30sec)	Wireless opening contact detector	1	Entrance door
2	Zone 2	Instant	Wireless motion sensor	1	Living room
3	Zone 3	Fire	Wireless smoke detector	1	Bedroom

- With this program, the **wireless opening detector** starts an entry delay of 30 seconds in which your **ABUS wireless alarm system** has to be deactivated if it is active. Additionally, you have 30 seconds to leave the object after activating it on the keypad.
- The **wireless motion sensor** is monitored only if the system is completely active. In an internally activated state, the wireless motion sensor is not monitored so that you can move freely within your object.
- The **wireless smoke detector** is always active.

If you have bought other detectors, you have to program them now. See the instructions for further information.

11.2.4 Allocate key-fobs

The key-fob has 4 buttons. To allocate the key-fob:

- Press 7.
  You are in the key-fob menu option.
- Press #↑ twice. Press 2 followed by #↑.
  The system waits for a signal from the remote control.

  Press the arm key (closed padlock) and keep it pressed until the system receives the message.
  The system acknowledges this with a long beep.
- Press * **twice** to complete the process. *You see the following in the display:*



11.2.5 Programming the key fob

You do not have to program the buttons of your remote control. They are already programmed for you as follows:

Button	Function
Active (closed padlock)	Arm
Inactive (open padlock)	Disarm
Small button	Panic
Large button	Internal arm

If you have bought other remote controls for your package, you have to program them now. See the instructions for further information.

11.3 Enabling voice text transmission by telephone

The telephone transmission function is disabled in the factory since it causes problems if no telephone line is connected. If you want to transmit voice text by telephone, do the following:

- Press 5.
  You are in the Dialer menu option.
- Press 6 followed by 02. Change the setting from **[N]** to **[Y]**. Press 🔒 once. *The display changes to **[Y]**.*
- Press #↑ to save your input.
- Press * **twice** to complete the process. *You see the following in the display:*



11.4 Exiting the installer menu

All wireless components in the package are now trained. Your **ABUS wireless alarm system** is almost ready for operation. You just have to enter the date and time and an alarm telephone number for voice text transmission in the event of an alarm. First, exit the installer menu. Proceed as follows:

- Press 0.
  The display asks if you want to save your data.

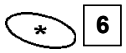
- Press #▲ to confirm.
  The ABUS wireless alarm system acknowledges successful saving of data with two long beeps and returns to the normal display:



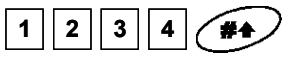
11.5 Programming date and time

Enter the date and time as follows:

- First press the star button followed by 6.



- You are asked to enter the Grand Master PIN code for the user menu. The default setting is **1234**. Enter this Grand Master PIN and confirm your input with the lozenge button.



You are now in the Clocks user menu and see the following display:

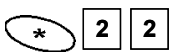


- Press #▲ and enter the current time in 24-hour format with 4 digits. For example **1111**.
- If you make a mistake, press the star button followed by the Enter button.
- Press #▲ to store the time.
- Press the button 2 and entert he current date. To change the month use the  button.
- Press #▲ to store the date.
- Press * to exit the user menu.

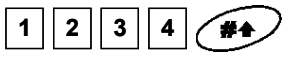
11.6 Programming the FM (follow me) number

You enter the Follow Me number – i.e., the number to be called in the event of an alarm – in the user menu. You can enter the FM number only if this function is first enabled in the installer menu (see 11.3).

- First press the star button, followed by 2, followed by 2.



- Confirm the **Define** menu item by pressing #▲.
- You are asked to enter the Grand Master PIN code for the user menu. The default setting is **1234**. Enter this Grand Master PIN and confirm your input with the lozenge button.

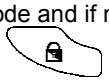
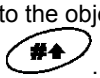


You are now in the FM user menu and see the following display:



- Confirm the menu option phone number 1 with the Enter button.

- On the system keypad, enter the number with local area code and if necessary a zero for obtaining a dial tone. To program a dial pause, enter **A**. You program the **A** with the  button. Press this button repeatedly until an **A** appears.
- To change the entered number, press the cursor buttons  and  to position the cursor under the number you want to change.
- To delete the entire number, program an **E** with the  button at the first digit of the number and then save the entered number with the  button. The number is deleted and does not appear again when this menu option is displayed.
- After successfully entering the number, press  to store the number. Enable the function **Remote program** and **Remote listen** to operate your system by telephone and listen in to the object over the loudspeaker. Press  to change the settings to **Y** and confirm your input with . Press several times to exit the user menu.

11.7 Triggering a test alarm

Activate your system with the remote control or press the  activate button on your system. Following expiry of the exit delay time (30 seconds), your system is active and monitoring all detectors. Now open the contact detector.
The entry delay time (30 seconds) starts. The system signals this by means of signal tones at one-second intervals.

To deactivate the system, enter the Grand Master PIN **1** **2** **3** **4**, followed by the deactivate button (open padlock).

Close the door and reactivate your system. Wait until the exit delay time expires and then open the contact detector again.

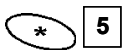
Do not deactivate your system, but wait until the entry delay time expires. After the end of the delay time, an alarm is triggered.

After a short time, you receive a call from to the programmed telephone number. Now deactivate your system and confirm the call on your telephone. For more information, see the brief guide on telephone control.

11.8 Changing the Grand Master PIN

Now that your system is operational, change the Grand Master PIN.

- First press the star button followed by 5.

- You are asked to enter the Grand Master PIN code for the user menu. The default setting is **1234**. Enter this Grand Master PIN and confirm your input with the lozenge button.

  1 **2** **3** **4** 

  You are now in the FM user menu and see the following display:

- Press the Enter button three times  and enter the new four-digit Grand Master (SUPER) PIN on the keypad.
- Confirm your input by pressing .
  If you forget your Grand Master PIN, you can change it in the installer menu.
- Press  several times to exit the user menu.

Chapter 12 Example of an installation plan

The following table provides an overview of the information your installation plan should contain:

Partition	Zone number	Detector	Zone type	Name
1	1	Door and window contacts	Entry/exit	MC front door
1	2	Door and window contacts	Entry/exit	MC terrace door
1	3	Motion detector	Instant	MS living room
1	4	Motion detector	Instant	MS entrance hall
1	5	Smoke detector	Fire	SD living room
1	6	Smoke detector	Fire	SD bedroom
1	7	Smoke detector	Fire	SD hall
1	8	Key-switch	Key switch latched	KS front door

Partition	Zone number	Detector	Zone type	Name
	1			
	2			
	3			
	4			
	5			
	6			
	7			
	8			
	9			
	10			
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