

**UK**

# **TRUST WIRELESS ALARM SYSTEM 200SA**

**Instruction Manual**

Version 1.1

## **Thank you**

Thank you very much for purchasing this product from the Trust range. We wish you hours of fun with it. Please read this manual carefully before using the product.

## **Registration**

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## 1. Introduction

This manual is intended for users of the Trust Wireless Alarm System 200SA. In case of doubt, consult one of the Trust Customer Care Centres. The last page of this manual contains more information about these Customer Care Centres.

With the Trust Wireless Alarm System 200SA you can secure your home or office in a simple manner. Using the 433MHz radio frequency (RF) technology you do not need to install any wires. You need only install the wireless motion detectors and hang magnetic contacts in the rooms you wish to secure. Next, you will set your own home code, after which the system is ready for use.

The alarm centre also has a built-in telephone selector, which makes automatic calls to pre-programmed telephone numbers in case of alarm. You can enter 6 telephone numbers for voice communication.

As an addition to the components that are included with this alarm centre it is also possible to add an unlimited number of extra wireless motion detectors and wireless magnetic contacts from the Trust 200 series. You can secure several rooms via the same alarm system with this. It is also possible to purchase several remote controls for your housemates.

Examples from the Trust 200 series optionally available components:

- Motion detector: Trust Wireless Motion Detector 200DM, article number 12460
- Magnetic contact: Trust Wireless Alarm Switch 200DS, article number 12461
- Remote control: Trust Wireless Remote Controller 200RC, article number 12462
- Smoke detector: Trust Wireless Smoke Detector 200DSM, article number 12463

### 1.1 Contents of the package

Check the contents of the package. It should contain:

- Alarm centre
- Power adapter 240VAC-12VAC/1000mA
- Wireless PIR motion detector with 9V battery
- Wireless magnetic contact with 9V battery
- Remote control with 12V battery
- Telephone cable
- Installation materials
- This user manual

Should anything be missing or be damaged, please contact one of the Trust Customer Care Centres.

## 2. Safety

### 2.1 General

1. Do not use the device in damp environments such as bathrooms, swimming pools etc.
2. Do not try to repair the device yourself.
3. Under the following circumstances have the device repaired by qualified personnel:
  - a) The cable or plug is damaged or worn;
  - b) Liquid has entered the device;
  - c) The device has fallen and/or the casing has been damaged;
4. Position the device so that the cables cannot be damaged.

### 2.2 Batteries

1. If you wish to use a back-up battery in your alarm centre:  
Only insert rechargeable batteries of the type NI-CAD AA3 1.2V/700mAH in the battery compartment of the alarm centre. These are used as back-up power if the electricity goes out, and are automatically charged when the power is on.
2. The batteries of the PIR motion detector, the magnetic window/door switch and the remote control are not rechargeable. Do not try to recharge these batteries. This may cause danger of explosion.
3. Do not throw the batteries into an open fire. The batteries may explode.
4. Never drill a hole in the batteries.
5. Keep the batteries out of the reach of small children.
6. When the batteries are empty, ask your local government where you can recycle them.

### 2.3 Interference

If another user in your vicinity operates a similar device with exactly the same channel settings, there is a theoretical possibility that your alarm system will respond to the other system. In that case, change the channel settings by setting another home code. You have a choice of more than 6500 different codes.

### 3. Function description

Before you install the alarm system, you must first become familiar with the functions of the various components of the alarm system. See the chapters below for the function description of the various components:

#### 3.1 Alarm centre

The alarm centre (receiver) is the “heart” of your alarm system and has a built-in siren and telephone selector. The receiver converts the incoming signals from the detectors into an alarm signal. The alarm central can be operated with the keyboard or very simply with the remote control.

Several alarms such as external sirens and flashing lights can be connected to the centre.

A rechargeable battery can be incorporated and will ensure that the system continues to function normally if the power happens to go out. A built-in battery charger ensures that the battery remains charged.

For a summary of the various functions of the alarm centre, see figure 1 and the table below:

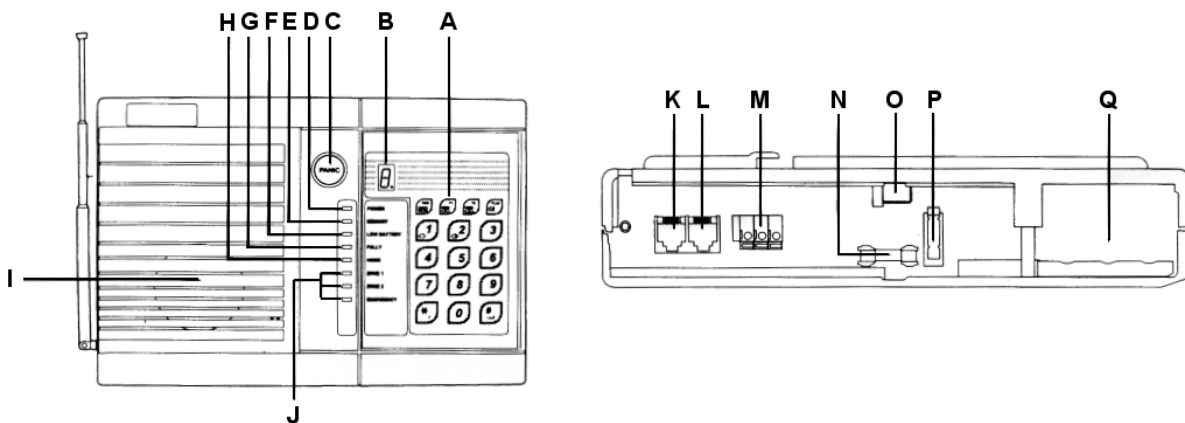


Figure 1: various functions of the alarm centre

	Function	Description
A	Keyboard	For programming the security code, the reset functions and operating the entire system.
B	7 Segment display	Presents an indication of different functions of the alarm system.
C	Panic button	Button to immediately activate the alarm in case of emergency.
D	Power LED	Goes on when the system is connected to the power adapter or the rechargeable batteries.
E	Memory LED	Starts to blink when one of the secured zones has transmitted a signal to the centre, or when it is waiting when reading the home code.
F	Low battery voltage LED	Starts to blink at the same time with zone LED to indicate that the battery voltage of a sensor in a certain zone is low.
G	Completely switched on LED	Starts to blink when the delay time is switched on and then will go on when the system is completely on.
H	Home mode LED	Goes on when the system is switched to the home mode. In the selected free zones of the home mode, the transmitters (wireless motion detector, magnetic contact, etc.) are switched off, so you can walk around freely. The other zones are activated.

	Function	Description
I	Built-in siren	Makes noise when the alarm goes off. A microphone has been built in next to this siren for the telephone selector.
J	3 Zone LEDs	Zone 1, 2 or emergency LED starts to blink when an alarm goes off in the pertinent zone.  Factory settings <b>Zone 1:</b> zone with 30-second switch-on and off delay  <b>Zone 2:</b> home mode zone, switch-on and off delay and immediate activation programmable  <b>Zone 3:</b> 24-hour zone and panic alarm. (24-hour zone for sabotage, smoke, fire and gas alarms, etc. Is even active when the alarm centre is switched off)
K	Telephone line connection plug	Connection for the enclosed telephone cable, which will be connected to the wall outlet telephone line.  Note: <i>Only for analogous telephone lines. Do not connect the system to digital lines, such as ISDN and ADSL lines.</i>
L	Telephone connection plug	Connection for normal analogous telephone.
M	Clamp strip	Connections for additional alarms, such as external sirens, flashing lights, etc.
N	Fuse	1A / 250V fuse
O	Power adapter connection plug	Connection for power adapter 12VAC/1000mA.
P	Sabotage switch	The sabotage switch protects the battery cover from being removed or broken. The siren will sound as soon as the cover is off.
Q	Battery compartment	Compartment for inserting 6x rechargeable NI-CD batteries 1.2V/700mAH (not included).  <b>Note:</b> <i>In order to prevent problems in case of power failure using the rechargeable batteries is recommended.</i>  <b>Note:</b> <i>Do not insert any normal alkaline batteries. The built-in battery charger may damage these.</i>

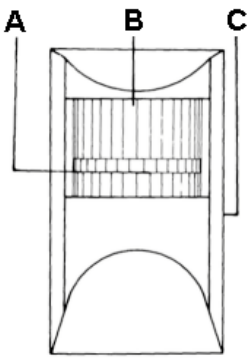


The alarm centre can be expanded to an unlimited extent with the following wireless transmitters:

### 3.2 Motion detector (Trust Wireless Motion Detector 200DM)

For securing entire rooms. The motion detector has a detection angle of 110°. The detector responds to sudden temperature changes within its detection area. As soon as a person walks into the detection area, the motion detector transmits a signal to the alarm centre. The motion detector is protected from sabotage and is sold with a 9V alkaline battery.

For a summary of the various functions of the motion detector, see figure 2 and the table below:



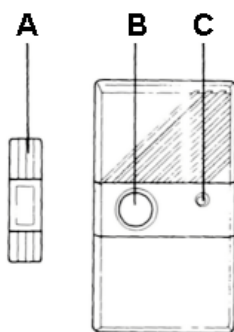
**Figure 2: wireless motion detector**

	Function	Description
<b>A</b>	LED	Goes on in test mode when a signal has been transmitted, as soon as motion has been detected. The LED stays off in the 'On' mode.
<b>B</b>	Passive Infra Red (PIR) sensor	For detecting persons within the secured area.
<b>C</b>	Test / On modes switch	Switch to test mode in order to test the detection range of the PIR. Switch to the ON mode for normal use.

### 3.3 Magnetic contact (Trust Wireless Alarm Switch 200DS)

For securing windows and doors. As soon as the contact is broken, so if a window or door is opened, the magnetic contact will transmit a signal to the alarm centre. The magnetic contact is also equipped with a panic button in order to be able to activate the alarm in case of emergency. The magnetic contact is protected from sabotage and is sold with a 9V alkaline battery.

For a summary of the various functions of the magnetic contact, see figure 3 and the table below:



**Figure 3: wireless magnetic contact**

	Function	Description
<b>A</b>	Magnetic block	Magnetic contact for detection of doors or windows being opened and closed.
<b>B</b>	Panic button	Button for activating the alarm directly in case of emergency.
<b>C</b>	LED	Goes on when a signal has been transmitted, as soon as an open contact has been detected or when the battery voltage is low.



### 3.4 Remote control (Trust Wireless Remote Controller 200RC)

The alarm system can be entirely operated with the enclosed remote control. Several remote controls can be used. This is handy when more than one person (housemates, for example) must be able to operate the alarm system.

For a summary of the various functions of the remote control, see figure 4 and the table below:

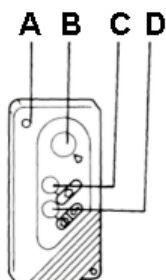



Figure 4: remote control

	Function	Description
<b>A</b>	LED	Goes on when a signal is transmitted after pressing one of the buttons or when the battery voltage is low.
<b>B</b>	Panic button	Button for activating the alarm directly in case of emergency.
<b>C</b>	Completely on / off button	Button for switching on the alarm system completely, or for switching off the 'Completely On' mode or 'Home mode'. (All LEDs will go on for 0.5 seconds and then start blinking while the entire system is switched on).
<b>D</b>	Home / Lock-up button	<p>'Home mode' means partially switching on the alarm system. In this manner a motion free zone can be created in your security installation. (For example: You are home, sleep on the 1<sup>st</sup> floor, only the detectors on the ground floor are activated.)</p> <p>Zone 2 is the standard at home mode setting. When you press the 'Home' button, the home mode of the alarm system will be switched on or off (all zone LEDs except for the home mode LEDs go on for 0.5 seconds when switching on).</p> <p>Keep the button pressed down for 2 seconds to switch the keyboard lock of the alarm centre off or on.</p> <p>The 7-segment display presents the following when the lock is switched on:</p> <div style="text-align: center;">  </div>

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## 4. Installation

Before installing the alarm centre you must first install the wireless accessories (motion detector, magnetic contact, etc.) and set the zone and home code of every accessory. This is because the alarm centre automatically detects and programs the home code at the first activation.

### 4.1 Setting the home code

Exactly the same home code must be set for all wireless accessories you want to use with your alarm centre, giving your alarm system 1 single home code. Only the components with this single code can communicate with each other.

You can set your single home code with the 8-point DIP switch within the wireless motion detector, wireless magnetic contact and the remote control by setting the DIP switches 1 through 8 in the “+”, “0” or “-” position.

### 4.2 Setting the zone

You can assign every wireless accessory its own zone. In this way you can see immediately on your alarm centre where any alarm originates. See the table below for the possible zone settings with the 3-point DIP switch of the motion detector and magnetic contact:

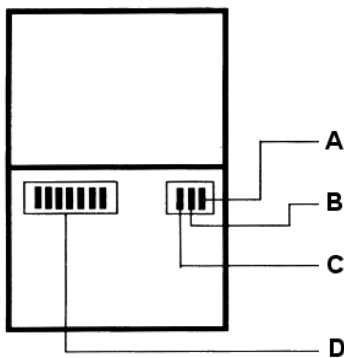
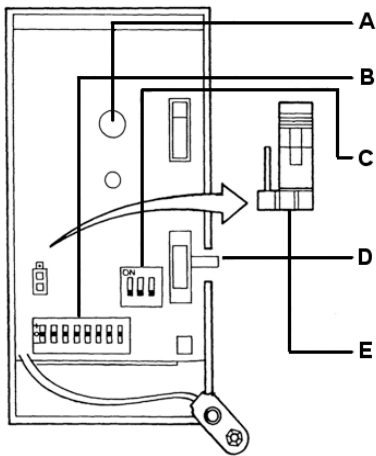


Figure 5: setting the zone

Switch	Function	Description	
A	Zone	Up (ON)	ZONE 2
		Down (OFF)	ZONE 1
B	Sound	Up (ON)	Sound on. When there is a signal from the motion detector or magnetic contact, a two-tone beep will sound from the alarm.
		Down (OFF)	Sound off
C	Mode	Up (ON)	On and off switching delay (30 seconds, time cannot be programmed)
		Down (OFF)	Immediate activation
D	Home code	Personal home code. Make sure the settings of the 8-point DIP switch of all your wireless components are the same.	

For the installation and setting the zone and home code of the various components, see the chapters below:

### 4.3 Wireless motion detector installation



**Figure 6: motion detector installation**

For installation of the wireless motion detector follow the steps below:

1. Remove the front protector plate of the motion detector with a small coin or screwdriver by placing it between the edge of the front and rear protector plates and clicking the plate loose.
2. Set your home code with the 8-point DIP switch (B) (see figure 6). You can pick a random setting. Do make sure that all wireless sensors and remote controls have the same code.
3. Set the zone you want to assign to the motion detector with the 3-point DIP switch (C). Also set optional on switch delay and beep. For the possible settings, see chapter 4.2.
4. Set the response speed of the motion detector with jumper (E):
  - a) Pin 1-2 connected: 1 pulse (normal, the motion detector transmits an alarm signal at the first detection of motion)
  - b) Pin 2-3 connected: 3 pulses (less chance of false alarm, the motion detector does not transmit an alarm signal until it has detected motion for the third time).
5. Connect the enclosed 9V alkaline battery to the battery plug.
6. Click the front protector plate of the motion detector back into place.
7. Loosen the foot on the rear of the motion detector by lifting the lip and sliding the foot up.
8. Attach the foot to the wall with the screws and plugs provided.

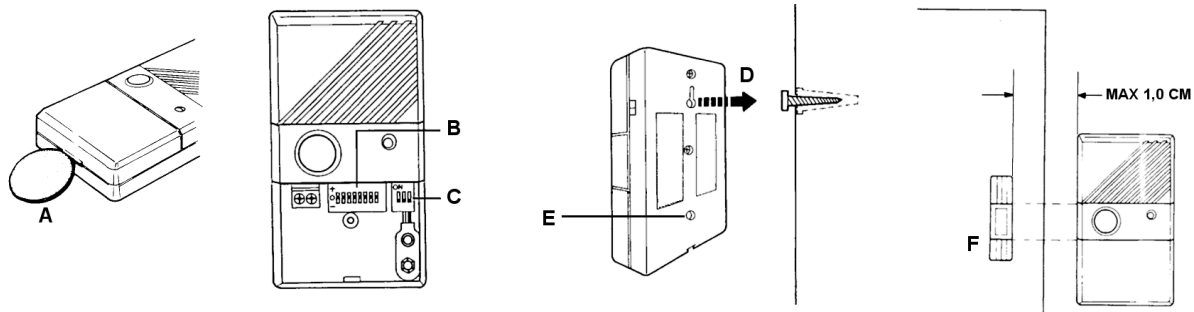
**Note:** For optimum operation placing the motion detector in the corner of the room about 2 meters above the floor is recommended.

9. Click the motion detector back onto the foot.
10. Set the test/on mode switch (D) to the test mode to test the detection range of the PIR sensor (A), the LED will go on in case of detection. Set the switch to the 'On' position for normal use.

#### 4.3.1 Important information for installation:

1. Only install the motion detector indoors.
2. Do not install the motion detector directly facing a window or in direct sunlight.
3. Do not install the motion detector facing an air conditioner, fan or radiator heater.
4. Do not suspend the detector from a metal fence or metal wall; these can reduce the transmission range.
5. Do not install the motion detector in a damp environment such as a bathroom.

#### 4.4 Wireless magnetic contact installation



**Figure 7: Magnetic contact installation**

For installation of the wireless magnetic contact follow the steps below:

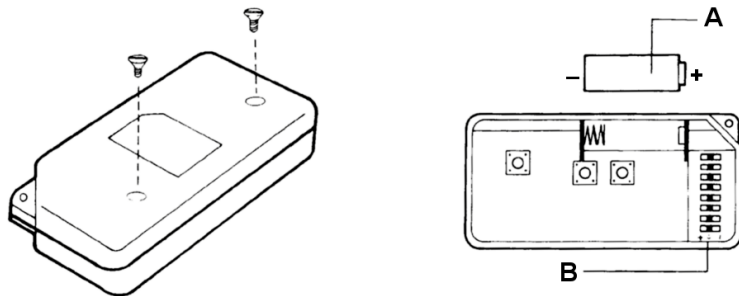
1. Remove the cover of the magnetic contact with a small coin or screwdriver by placing it between the edges of the cover (A) and clicking it loose. See figure 7.
2. Set your home code with the 8-point DIP switch (B). You can select a random setting. Do make sure that all wireless sensors and remote controls have the same code.
3. Set the zone you want to assign to the magnetic contact with the 3-point DIP switch (C). Also set optional on switch delay and beep. For the possible settings, see chapter 4.2.
4. Mount the magnetic contact to the door frame or window frame with the screws enclosed (D-E, see figure 7).
5. Remove the protector plate of the magnetic block with a small screwdriver by lifting the lips of the plate up.
6. Mount the magnetic block to the door or window as close to the magnetic contact as possible with the screws enclosed (see figure 7) and click the protective plate of the magnetic block back into place.

**Note:** Place the magnetic block along the side of the panic button, even with the horizontal lines of the housing. Place the magnetic block in such a manner that the distance between magnet and contact is as short as possible (optimum is 0.5 cm, keep it shorter than 1.0 cm).

7. Connect the enclosed 9v alkaline battery to the battery plug and close the plate. If the door or window is opened, the contact is broken and the transmitter transmits a signal to the alarm centre.

**Note:** If you cannot use screws in a certain situation to attach the magnetic contact, you can also use double-side adhesive tape. However, this is not as good a mounting as screws as tape can come loose and cause a false alarm.

#### 4.5 Remote control installation

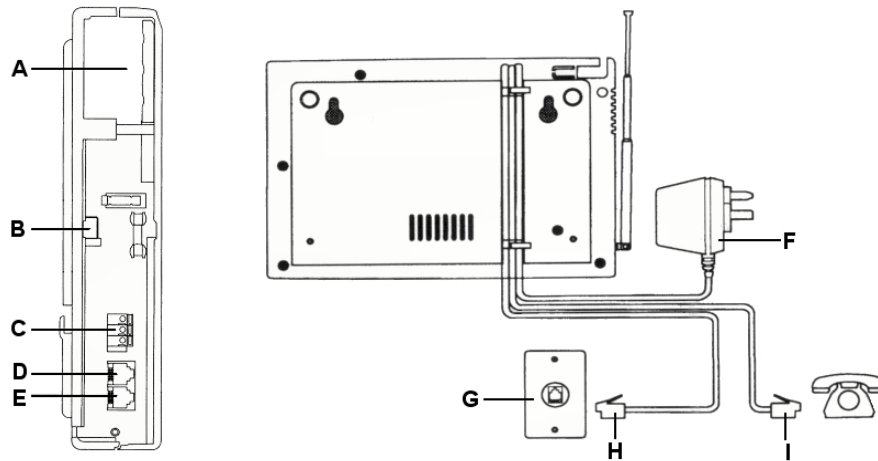


**Figure 8: remote control installation**

For installation of the remote control follow the steps below:

1. Remove the rear protector plate of the remote control by loosening the 2 screws with a small screwdriver. See figure 8.
2. Set your home code with the 8-point DIP switch (B). You can select a random setting. Do make sure that all wireless sensors and remote controls have the same code.
3. Insert the enclosed 12V alkaline battery (A) in the battery compartment. See figure 8.
4. Screw the rear plate back into place.

## 4.6 Alarm centre installation



**Figure 9: alarm centre installation**

**Note:** First install the accessories included (wireless motion protector, wireless magnetic contact, etc.), before installing the alarm centre. Also make sure that the magnetic contact is closed (door or window closed).

For installation of the alarm centre follow the steps below:

1. Remove the top protector plate by loosening the screw (A) with a screwdriver. See figure 9.
2. Connect the AC 12V plug of the enclosed power adapter to the power connection (B).
3. Run the power adapter cable through the slot at the rear of the alarm centre. See figure 9. Maintain some slack in the cable in the centre to prevent the connection from coming loose.
4. Connect the enclosed telephone cable to the power connection (E). See figure 9.
5. Insert the enclosed telephone cable through the slot at the back of the alarm centre and connect the other end of the telephone cable (H) to the telephone wall jacket (G).

**Note:** Only for analogous telephone lines. Do not connect the system to digital lines, such as ISDN and ADSL lines.

**Note:** If you connect the alarm centre to a telephone switchboard, it may be possible that the alarm system can no longer dial when the power fails because the telephone switchboard has stopped functioning.

6. As an option, connect the cable of your analogous telephone to your telephone connection (D).
7. Insert the enclosed telephone cable through the slot at the back of the alarm centre and connect the other end (I) to your analogous telephone.
8. Attach the alarm centre at the location selected with the enclosed screws and plugs.
9. Insert the plug (F) into the power outlet.
10. Check whether the 'POWER' LED is on. The 'MEMORY' LED will start to blink at the same time. See figure 1.
11. Install the backup battery (not included):  
Pull the battery holder (A) from the battery compartment. Place 6 AA 1.2V/700mAH Ni-CD rechargeable batteries in the holder according to the instructions and replace the holder in the battery compartment. See figure 9.
12. Screw the top plate back into place.



### 13. Learn the home code:

The alarm centre uses a technique that 'learns' the home code automatically. Therefore, there is no DIP switch in the alarm centre. If you have set the same home code in the wireless motion detector, the magnetic contact and the remote control, press the "Completely on/off button" (middle button) of the remote control. The alarm centre then detects your home code and programs this into the memory.

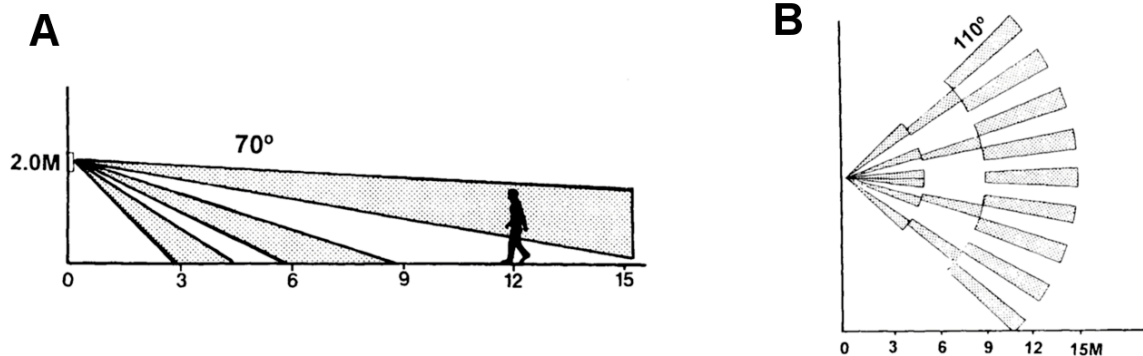
### 14. Programming the home code is done when the 'MEMORY' LED changes from blinking to continuously on.

#### 4.6.1 Determining the best location for the alarm centre:

For the best reception, attach the alarm centre at a height of 1.5 to 1.8 meters above the floor. Placing the alarm centre close to the main entrance of your home is recommended. This makes it easier for you when you use the 30-second delay period (programmable), if you use the keyboard to completely switch your system on or off.

## 5. Testing

### 5.1 Testing the wireless motion detector



**Figure 10: testing the wireless motion detector**

For testing the detection range of the PIR motion detector follow the directions below:

1. Make sure that the home code is the same as that of the magnetic contact and the remote control.
2. Set the 'Test/On' switch to the 'Test' mode.
3. Allow the PIR motion detector to warm up for 1 to 3 minutes before you begin testing.
4. Set the alarm centre to the test mode; enter [**your security code 4 digits**] [\*] [8] on your keyboard. See chapter 6.1.
5. Walk through the secured area at a speed of 1 step per second right through the PIR beam and check the LED of the motion detector. Every time you walk through a beam you will hear a beeping sound from the alarm centre and the associated zone LED will go on.
6. The maximum range of motion detection of the motion detector is 12 to 15 metres. See figure 10. (In the test mode, the motion detector needs 15 seconds to reset after transmitting a signal, so move every 15 seconds in front of the sensor when testing).
7. In order to switch off the alarm centre test mode, once again enter [**your code 4 digits**] [\*] [8].
8. After testing set the 'Test/On' switch of the motion detector back to the 'On' stand. The LED of the motion detector will not go on again.

If the wireless motion detector does not respond adequately when testing, you must move the detector or adapt the direction of the sensor.

## 5.2 Testing the wireless magnetic contact.

1. Make sure that the home code is the same as that of the motion detector and the remote control.
2. Press the 'Panic' button of the magnetic contact. If the alarm goes off, the button is functioning correctly.
3. Set the alarm centre to the test mode; enter [**your security code 4 digits**] [\*] [8] on your keyboard.
4. Break the magnetic contact by opening the door or the window. If the alarm centre makes a beeping sound and the associated LED goes on, the magnetic contact is functioning correctly.
5. In order to switch off the alarm centre test mode, once again enter [**your code 4 digits**] [\*] [8].






## 6. Use



### 6.1 Keyboard alarm centre

For the possible settings with the alarm centre keyboard, see the table below:

Code	Description
# 4 digits Code #	<p><b>Setting the first security code (4 digits):</b> after entering the code, you will hear 6 beeps as confirmation. Example: you want to input security code 1 2 3 4: [#] [1] [2] [3] [4] [#]</p> <p><b>Note:</b> Remember this code well! You need this code when switching the system on and off and for all settings.</p> <p><b>Note:</b> If you do not enter a security code in the beginning, you can use all codes below without first entering the 4-digit code.</p> <p><b>Removing the security code:</b> Keep the "Home" button (bottom button) pressed down for more than 10 seconds to delete the security code.</p>
1 2 3 4 # New Code #	<p><b>Changing the security code:</b> After entering the code, you will hear 6 beeps as confirmation. Example: you want to input the new code 5 6 7 8: [1] [2] [3] [4] [#] [5] [6] [7] [8] [#]</p>
1 2 3 4 * 1	<p><b>Switching on the alarm completely with the keyboard:</b> After entering the code, you will hear 6 beeps as confirmation. Example: the security code is 1 2 3 4.</p> <p><b>Note:</b> All LEDs go on for 0.5 seconds when switching on the alarm in the 'completely on' mode.</p> <p><b>Switching off the alarm completely with the keyboard:</b> Input the same code once more to switch off the alarm. After entering the code you will hear 2 beeps as confirmation.</p>
1 2 3 4 * 2	<p><b>Switching on the alarm in the home mode:</b> After entering the code you will hear 6 beeps as confirmation. The system is now partially switched on.</p> <p>Example: the security code is 1 2 3 4.</p> <p><b>Note:</b> Except for the switched off zone, all other LEDs will go on for 0.5 seconds when the alarm is switched on the 'Home' mode.</p>



Code	Description
	<p><b>Switching the home mode off again:</b> Input the same code once more for switching off the home mode. After entering the code you will hear 2 beeps as confirmation.</p>
<p>1 2 3 4 * 5</p>	<p><b>Setting the dial mode:</b> Enter this code to switch the phone selector between the “pulse” and “tone” modes. For further information, please consult your local telephone company.</p> <p>The 7-segment display presents the following:</p> <p> “tone” mode</p> <p> “pulse” mode</p> <p>The factory setting is “tone”.</p>
<p>1 2 3 4 * 8</p>	<p><b>Switching on test mode:</b> Switch the system to test mode if you want to test the wireless motion detector and the wireless magnetic contact. You will hear 1 beep as confirmation of switching on.</p> <p>The 7-segment display presents the following:</p> <p> “test” mode, motion detectors and magnetic contacts can now be tested.</p> <p><b>Switching off the test mode:</b> Enter the same code once more to switch off the test mode. You will hear 2 beeps as confirmation.</p>
<p>1 2 3 4 * 9</p>	<p><b>Switching off alarm to replace batteries:</b> Switch the alarm off to replace the batteries of the wireless motion detector and wireless magnetic contact. You will hear 2 beeps when switching on this function and 1 beep when switching off this function (siren functions normally again).</p>
<p>1 2 3 4 * *</p>	<p><b>Switching the panic alarm sound off/on:</b> Ensures that the siren does not go off when pressing a panic button. An automatic phone selector can call out with silent alarm with this.</p> <p>The 7-segment display presents the following:</p> <p> “Sound on”, alarm system functioning normally.</p> <p> “Sound off”, siren does not go off when the panic button is being pressed. For using silent alarm (no siren, but automatic dialling to alarm numbers).</p> <p>The factory setting is “Sound on”.</p>

Code	Description
<p>1 2 3 4 Rec 1</p> <p>1 2 3 4 Rec 2</p> <p>1 2 3 4 Rec 3</p> <p>1 2 3 4 Rec 4</p> <p>1 2 3 4 Play 1</p> <p>1 2 3 4 Play 2</p> <p>1 2 3 4 Play 3</p> <p>1 2 3 4 Play 4</p>	<p><b>Recording and playing back voice messages:</b> Record short voice messages that are played back automatically when calling the telephone numbers you entered.</p> <p>The 7-segment display presents the following:</p> <p> <b>“Recording”, enter [4-digit code] [REC] [1-4] to record a voice message. After recording, the message is played back once to check.</b></p> <p> <b>“Play back”, enter [code] [PLAY] [1-4] to play back the recorded messages.</b></p> <p>You can record 4 different messages, 3 short 2-second messages and 1 14-second detailed message. See the examples below:</p> <p>[REC] [1] : Burglary report (2-second recording) for example: “burglary – burglary - burglary”</p> <p>[REC] [2]: Fire report (2-second recording) for example: “fire – fire - fire”</p> <p>[REC] [3]: Emergency message (2-second recording) for example: “help – help – help”</p> <p>[REC] [4]: Detailed message with a report, for example, of the home address and the owner’s name, etc. (14-second recording) for example: “this is the home of Mr. Van Zomeren, the address is..., we need help”.</p>
<p>1 2 3 4 T1 1~6 Number #</p>	<p><b>Telephone numbers for voice messages:</b> You can enter 6 different telephone numbers for voice messages, which are called automatically when a certain alarm is reported.</p> <p>As soon as a number that is dialled is answered, the alarm centre will play the selected taped voice message 3 times and then call the subsequent telephone number.</p> <p>For every telephone number, first one of the 3 short voice messages is played, followed by the detailed voice message.</p> <p>The person who is called can interrupt the automatic voice message by pressing the “1” key on his telephone. In that case the alarm system will proceed to the next number immediately.</p> <p>See chapter 7 for more information.</p>

Code	Description
<div style="display: flex; justify-content: space-around; align-items: center;"> <span>1</span> <span>2</span> <span>3</span> <span>4</span> <span>T1</span> <span>1~6</span> <span>Play</span> </div> <div style="display: flex; justify-content: space-around; align-items: center; margin-top: 10px;"> <span>Number</span> <span>#</span> <span>Code</span> <span>#</span> </div>	<p><b>Telephone numbers for pagers:</b> Instead of the 6 numbers for voice messages you can also set the 6 numbers of group “T1” for calling a pager</p> <p>Enter the page number at ‘Number’ and the number you want to leave the receiver at ‘Code’, such as your telephone number or the alarm system ID number.</p> <p>See chapter 7 for further information.</p>
<div style="display: flex; justify-content: space-around; align-items: center;"> <span>1</span> <span>2</span> <span>3</span> <span>4</span> <span>*</span> <span>T1</span> <span>1~6</span> </div>	<p><b>Numbers for voice playback:</b> Enter this code to check the telephone numbers stored in group “T1”. The telephone numbers 1-6 are presented in the 7-segment display.</p>



## 6.2 Resetting the alarm system

Follow the steps below if you want to reset the settings of your alarm system to the standard values:

1. Enter [\*] [9].
2. Remove the power supply (power adapter and back-up batteries)
3. Keep the [#] key of the alarm system pressed in (do not let go of it until you are requested to do so)
4. Reconnect the power supply (power adapter and back-up batteries)
5. All LEDs will go on
6. Release the [#] key.
7. The “Memory” LED will start to blink as a confirmation of completion.
8. If the system is connected to the power supply, press the “Home mode” button of the remote control (bottom button) to learn the home code. The “Memory” LED will go on.
9. Enter [\*] [9].
10. Remove the top cover plate.
11. Press the “Home mode” button to reset the “Emergency LED” if it is blinking.

**Note:** Voice messages will not be deleted by the above procedure.

## 7. Setting telephone numbers

The possible telephone numbers are subdivided into 2 groups. The first group (T1) is for voice messages and the second group (T2) is for digital communication.

Group T1 has 6 telephone numbers for voice messages. All 6 of these can also be used for pager applications.

**Note:** *The telephone numbers may not be longer than 24 digits.*

### 7.1 Examples for setting telephone numbers

See the examples below of the possible telephone settings.

**Note:** *The telephone numbers are only for reference, so must not literally be entered.*

1. Setting cell phone number (number: 09035217)

T1 1 → 0 9 0 3 5 2 1 7 → #

2. Setting telephone number (number: 29186868)

T1 2 → 2 9 1 8 6 8 6 8 → #

3. Setting telephone number 29186868, when the alarm system is connected to a telephone switchboard and a "0" must be dialed to get the outside line.

T1 3 → 0 \* 2 9 1 8 6 8 6 8 → #

4. Setting telephone number 33521828 with extension 23

T1 4 → 3 3 5 2 1 8 2 8 \* 2 3 → #

**Note:** *It is possible that you must enter more than one [\*] for the extension number if the telephone switchboard you are calling needs more time to forward your call. With the additional [\*] you can insert a longer pause.*

5. Setting pager number 060456456 and you want to leave your telephone number 22183850 with the recipient

T1 5 → Play 0 6 0 4 5 6 4 5 6 #

2 2 1 8 3 8 5 0 → #

or

T1 5 → Play 0 6 0 4 5 6 4 5 6 \* #

2 2 1 8 3 8 5 0 → #

**Note:** *You may have to enter a [\*] for the [#] if the if the telephone switchboard you are calling needs more time to forward your call. With the additional [\*] you can insert a longer pause*

6. Setting pager number 060456456 with extension 099 and you want to leave your telephone number 22183850 or your ID code 012 with the recipient

T1 5 → Play 0 6 0 4 5 6 4 5 6 # \*

0 9 9 2 2 1 8 3 8 5 0 → #

or

T1 5 → Play 0 6 0 4 5 6 4 5 6 # \*

0 9 9 0 1 2 → #



**Note:** *If your alarm system is connected to a switchboard, make sure that the limit of 24 digits for the telephone number is not exceeded or else the system will not function properly. If necessary, connect the system to a direct analogous telephone line or just enter a special ID code instead of a complete telephone number.*

## 7.2 Activation

If the Trust Wireless Alarm System 200SA is activated (the alarm goes off), the built-in telephone selector will automatically call the telephone numbers in its memory and play the voice messages. See chapter 6.1.

The sequence of calling is first the consecutive numbers of group “T2” and then those of group “T1”. For each telephone number one of the 3 short voice messages will be played first (depending on the type of alarm), followed by the detailed voice message. The messages are repeated 3 times for each telephone number.

The person receiving the call can switch on an audio function on his telephone by pressing the “2” button on his telephone after the voice message has been played. The message will not be played again, only a beep will sound. This audio function lasts 20 seconds and can be extended by another 20 seconds if the person receiving the call presses “2” again.

The person receiving the call can conclude the call by pressing on the “1” key of his telephone

## 8. Extra options

**Note:** *Cables must be installed for the options below. Have this done exclusively by people with installation technology knowledge.*

### 8.1 Clamp strip pin functions

With the clamp strip inside the top of the alarm centre you can connect additional accessories by means of cables.

**Note:** *Disconnect the power adapter and the battery before connecting the additional accessories.*

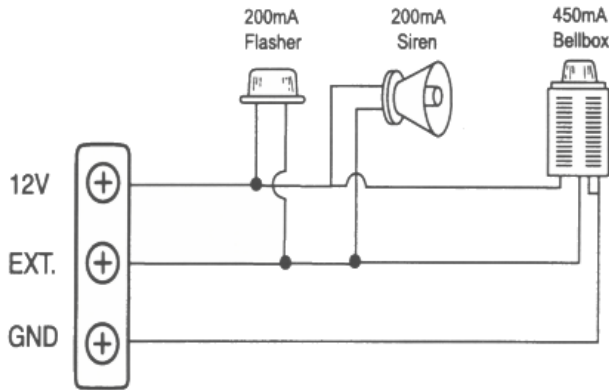







Figure 11: installation of additional accessories on clamp strip

Function	Description
12V	Power connection for external accessories
EXT.	Active low-voltage output for switching on the accessories
GND	Ground connection.

## 8.2 Advanced settings

Code	Description
<div style="display: flex; justify-content: space-around; align-items: center;"> <span style="border: 1px solid black; padding: 2px 5px;">1</span> <span style="border: 1px solid black; padding: 2px 5px;">2</span> <span style="border: 1px solid black; padding: 2px 5px;">3</span> <span style="border: 1px solid black; padding: 2px 5px;">4</span> <span style="border: 1px solid black; padding: 2px 5px;">*</span> <span style="border: 1px solid black; padding: 2px 5px;">7</span> <span style="border: 1px solid black; padding: 2px 5px;">1</span> <span style="border: 1px solid black; padding: 2px 5px;">#</span> </div>	<p><b>Setting output for external siren:</b> Enter this code if you have connected an external siren.</p> <p>The 7-segment display presents the following:</p> <div style="text-align: center; font-size: 2em; border: 1px solid black; padding: 5px; width: 30px; margin: 0 auto;">5</div> <p>The siren will be activated for 1 minute if an alarm is reported.</p>
<div style="display: flex; justify-content: space-around; align-items: center;"> <span style="border: 1px solid black; padding: 2px 5px;">1</span> <span style="border: 1px solid black; padding: 2px 5px;">2</span> <span style="border: 1px solid black; padding: 2px 5px;">3</span> <span style="border: 1px solid black; padding: 2px 5px;">4</span> <span style="border: 1px solid black; padding: 2px 5px;">*</span> <span style="border: 1px solid black; padding: 2px 5px;">7</span> <span style="border: 1px solid black; padding: 2px 5px;">2</span> <span style="border: 1px solid black; padding: 2px 5px;">#</span> </div>	<p><b>Setting the output for external flashing light:</b> Enter this code if you have connected an external flashing light.</p> <p>The 7-segment display presents the following:</p> <div style="text-align: center; font-size: 2em; border: 1px solid black; padding: 5px; width: 30px; margin: 0 auto;">F</div> <p>The flashing light will be activated for 30 minutes if an alarm is reported.</p> <p><b>Note:</b> Do not use this setting for the siren!</p>
<div style="display: flex; justify-content: space-around; align-items: center;"> <span style="border: 1px solid black; padding: 2px 5px;">1</span> <span style="border: 1px solid black; padding: 2px 5px;">2</span> <span style="border: 1px solid black; padding: 2px 5px;">3</span> <span style="border: 1px solid black; padding: 2px 5px;">4</span> <span style="border: 1px solid black; padding: 2px 5px;">*</span> <span style="border: 1px solid black; padding: 2px 5px;">7</span> <span style="border: 1px solid black; padding: 2px 5px;">3</span> <span style="border: 1px solid black; padding: 2px 5px;">#</span> </div>	<p><b>Setting the output for external indication LED:</b> Enter this code if you have connected an external indication LED to indicate the alarm being switched on and off.</p>

Code	Description
	<p>The 7-segment display presents the following:</p>  <p>This output is a 200mA active low-voltage output. When using a small LED as indicator, a resistor must be used to limit the current (2 kOhm, ¼ W resistor for normal LED).</p>
	<p><b>Setting input as N/C input:</b> Enter this code if you have connected an external detector, which functions as a closed contact in rest position (Interrupting the contact will sound the alarm).</p> <p>The 7-segment display presents the following:</p>  <p>In zone 2, this setting functions as direct alarm report.</p>
	<p><b>Setting input as an on / off switch:</b> Enter this code if you have connected an external card reader or electronic lock with which to switch the system on and off.</p> <p>The 7-segment display presents the following:</p> 



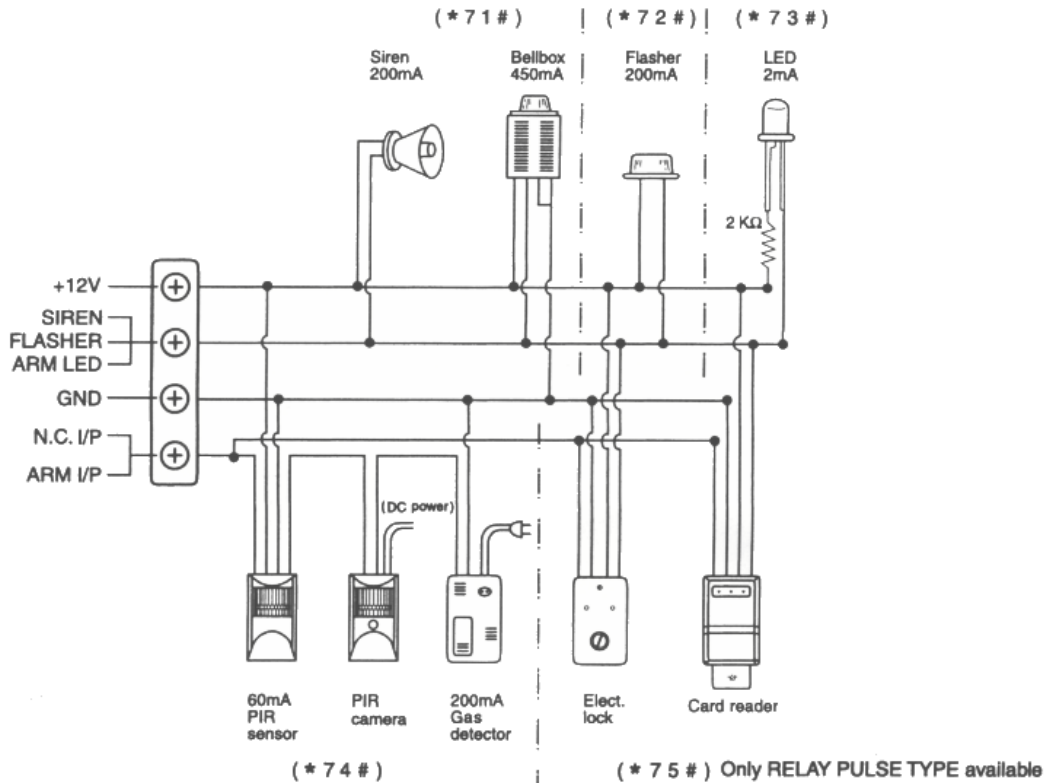


Figure 13: wiring diagram for external accessories

### 8.3 Example of several magnetic contacts

The enclosed wireless magnetic contact can also be expanded with extra magnetic sensors via the incorporated 2-pole clamp strip in order to be able to secure several doors or windows via 1 transmitter.

**Note:** You must install cables for this.

For the possible connections see the diagrams below. Remove the shunt cable if you want to connect additional sensors to the magnetic contact.

**Note:** The magnetic contacts must be closed in rest position (safe mode).

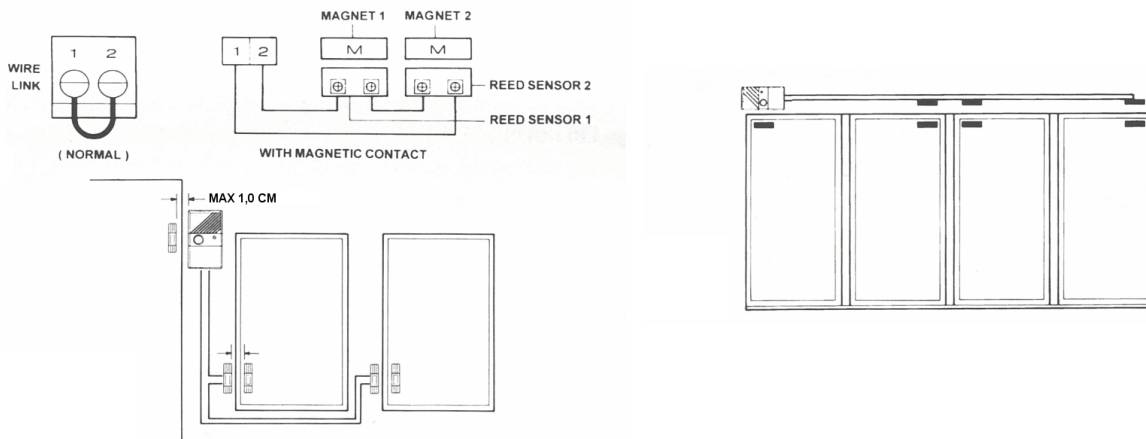


Figure 13: example 1 connecting additional magnetic sensors



## 9. Questions & answers

Question	Answer
<b>What is the difference between the security code and the home code?</b>	With the security code you can switch the alarm on and off and adapt all settings via the keyboard. With the home code, a single code is assigned to the wireless transmitters, which also prevents interference with possible systems in the vicinity.
<b>Why doesn't the system function after the power adapter has been connected?</b>	Make sure that the power adapter is properly connected to the outlet in the wall.
	Make sure the fuses are inserted properly in the fuse holder.
	When using a back-up battery, connect the "+" and the "-" cables properly. The system does not function if the cables have been connected in reverse position.
<b>Why does the LED of zone 8 keep blinking?</b>	The alarm centre automatically learns the home code when the system is first installed. Press one of the remote control buttons to complete the programming of the home code.
<b>How do I remove all settings if I forgot my security code or if I want to reinstall the system?</b>	Remove the rechargeable back-up batteries and pull the power adapter from the electrical outlet. Plug the power adapter back into the outlet and reconnect the back-up batteries. See chapter 6.2. You can reinstall the system now.
<b>What should I do if I entered the wrong code?</b>	Check if you hear the correct beep after entering a certain code (see chapter 6.1). If not, you can simply enter the codes once again to overwrite the previous action.
<b>Why don't the additional accessories, such as siren, flashing light, etc. which I connected to the clamp strip function properly?</b>	Check if you connected the accessories according to the diagram in chapter 8.
	Add up the power consumption of all accessories connected and make sure this does not exceed 450mA.
<b>Why is the transmission range of my wireless accessories and alarm centre shorter than indicated in the specifications?</b>	Make sure that the alarm centre is not installed in the vicinity (3 metres, at minimum) of metal objects or electronic devices, such as refrigerators, air conditioners. These may cause interference.
<b>Does the PIR motion detector respond to my dog or cat?</b>	Yes. However, you can create a free walking zone for your pet by taping off the bottom half of the sensor lens with white tape. This prevents the sensor from being directed toward the ground. But it will reduce the effectiveness of the PIR.
<b>Can I install several motion detectors in 1 zone?</b>	Yes, but you must make sure they do not overlap. Overlapping areas are not secure. 1 motion detector per zone is usually sufficient.
<b>Can I install a motion detector outdoors?</b>	ABSOLUTELY NOT! The motion detector is sensitive to large temperature variations. To prevent false alarms, you can only mount the motion detector indoors.
<b>How many remote controls, wireless magnetic contacts and motion detectors can I install on the system and in a zone?</b>	You can install as many as you want, there is no limit. Do make sure that the different motion detectors in one zone do not overlap.

Question	Answer
<b>How can I replace the batteries of the detectors without setting off the alarm?</b>	You can enter the code [ <b>your security code</b> ] [*] [9] to switch off the alarm temporarily. You will then have 10 minutes before the system switches on again automatically.
<b>My rechargeable batteries are empty. Must I recharge them before inserting them into the alarm centre?</b>	No. The alarm centre automatically charges the batteries and makes sure they remain fully charged.
<b>How long will the system continue to function with the back-up batteries if the power fails?</b>	Approximately 14 hours.
<b>Why is the keyboard not functioning?</b>	Check if the 'keyboard lock' is activated. If the keyboard is locked, it can only be unlocked via the remote control. Keep the "home / lock" button (bottom button) pressed down longer than 2 seconds.
<b>Why is the status indication of the magnetic contacts incorrect?</b>	This is probably caused by poor functioning of the magnetic contacts, causing the memory of the system to become confused. The system gets confused if the door or window is opened and closed within 1 second.  Also check whether the magnetic block has been placed as close to the magnetic contact as possible for optimum functioning (see chapter 4.4).
<b>Can I connect the telephone line to an ISDN or ADSL line?</b>	No, you can only connect the alarm system to a direct analogous line or to an analogous telephone switchboard.
<b>Why is the telephone line not functioning?</b>	Check whether the telephone cable is connected correctly. See chapter 4.6.  Check whether you have set the correct calling mode. Enter the code [ <b>your security code</b> ] [*] [5] to switch between "tone" mode and "pulse" mode. For further information, please consult your local telephone company  You have connected your alarm system to a telephone switchboard and must first dial a "0" to get an outside line. See chapter 7.1.  The telephone switchboard to which your alarm system is connected has been switched off. Switch the telephone switchboard on.
<b>Why do I hear nothing if the alarm system called me?</b>	No voice messages were recorded in your alarm system. You can record 3 short messages and 1 detailed message. See chapter 6.1.  You did not speak your messages clearly into the built-in microphone. The microphone is located immediately to the right of the built-in siren. Record the messages again and listen to them first. See chapter 6.1.
<b>What is the order in which the alarm system calls the programmed telephone numbers?</b>	The calling order is first the consecutive "T2" numbers (7 -> 8) and then the consecutive "T1" numbers (1 -> 6).
<b>Problem not listed here.</b>	Go to <a href="http://www.trust.com/12459">www.trust.com/12459</a> for FAQ and other product information.

Check the FAQ's on the Internet ([www.trust.com](http://www.trust.com)). You can also register your product via [www.trust.com](http://www.trust.com) so that you are able to receive optimal guarantee and service support. You will be automatically informed of developments to your product and of other Trust products. You will also have the chance to win some spectacular prizes.

If you still have any problems after trying these solutions, please contact one of the Trust Customer Care Centres. Please have the following information available:

- The article number. This is: 12459.
- Summary of all components of your alarm system used.
- A good description of what precisely does not work.
- A good description of when precisely the problem occurs.

A black rectangular box containing the letters 'UK' in a white, bold, sans-serif font.

## 10. Specifications

<b>Alarm centre</b>	
Transmission frequency	433MHz; with a maximum of 6561 channels (home code) programmable.
Transmission range	50 meters in a free area without obstacles or interference.
Operating voltage	7.2 – 12VDC
Electricity consumption when in use	Internal 250mA (max); external 450mA with Ni-CD batteries
Electricity consumption in rest position	60mA (max)
Operating temperature	0°C to +40°C
Power adapter	240VAC – 12VAC / 1AH
Possible back-up batteries	6x 1.2V / 700MAH rechargeable Ni-CD batteries
Dimension [LxWxH]	235 x 165 x 60 mm
Weight	550g (without batteries)

<b>Wireless magnetic contact</b>	
Power voltage	1x 9VDC alkaline battery
Electricity consumption in rest position	5µA
Electricity consumption when transmitting	8.8mA

<b>Wireless PIR motion detector</b>	
Power adapter	1x 9VDC alkaline batteries
Electricity consumption in rest position	32µA
Electricity consumption during use	7.8mA

<b>Remote control</b>	
Power voltage	1x 12VDC alkaline battery
Electricity consumption in rest position	3mA
Electricity consumption when transmitting	11.7mA

## 11. Trust Customer Care Centres

<b>www.trust.com</b>	
<b>Residents in the UK and Ireland should contact:</b>	
From 8:00 - 16:00	<b>UK Office</b> Phone +44-(0)0845-6090036 Fax +44-(0)1376-514633
<b>I residenti in Italia possono contattare:</b>	
Orario: 9:00 - 13:00 / 14:00 - 18:00	<b>Ufficio italiano</b> Telefono +39-051-6635947 Fax +39-051-6635843
<b>Les habitants de la France et de l'Afrique du Nord peuvent contacter :</b>	
De 9:00 à 17:00	<b>Bureau français</b> Téléphone +33-(0)803-083080 Fax +33-(0)1-48630261
<b>Kontaktadresse für Einwohner Deutschlands:</b>	
Erreichbar: 9:00 - 17:00	<b>Deutsche Geschäftsstelle</b> Telefon 0800-00TRUST (0800-0087878) Fax +44-(0)2821-58873
<b>Los habitantes de España pueden ponerse en contacto con:</b>	
De las 9:00 a las 17:00 horas	<b>Oficina española</b> Teléfono +34-(0)902-160937 Fax +31-(0)78-6543299
<b>Inwoners van Nederland kunnen contact opnemen met:</b>	
Van 9:00 - 17:00 uur	<b>Kantoor Nederland</b> Telefoon 0800-BELTRUST (0800-23587878) Fax +31-(0)78-6543299
<b>All other countries / Alle anderen Länder / Tous les autres pays Tutti gli altri paesi / Todos los demás países / Alle andere landen</b>	
From: 9:00 - 17:00	<b>European Head Office</b> Phone +31-(0)78-6549999 Fax +31-(0)78-6543299