



## **USERS' MANUAL**

**PROTECTOR+ SYSTEM AND BASE CONSOLE INSTRUCTIONS**

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## **Introduction**

Thank you for purchasing this Home Protector+ System. This security system is made with care and is of the high quality. Please read the user manual carefully and follow up the instructions accordingly.

## **Safety Warnings**

- To prevent short circuits, this product (except if specified for outdoor usage) should only be used inside and only in dry spaces. Do not expose the components to rain or humidity. Do not use the product close to a bath, swimming pool etc.
- Only connect the adapter to the mains after checking whether the mains voltage is the same as the values on the rating labels. Never connect an adapter or power cord when it is damaged. In that case, contact your supplier.
- Avoid strong mechanical tear and wear, high temperatures, strong vibrations and high humidity.
- Do not open the product: the device contains live parts. The product should only be repaired or serviced by a qualified repairman. Defective pieces must be replaced by original parts.
- Adapters: Only connect the adapters to the mains after you have checked whether the mains voltage corresponds with the value on the type tags. Never connect an adapter or cable when it is damaged. In that case, contact your supplier.
- Batteries: keep batteries out of the reach of children. Dispose of batteries as chemical waste. Never use old and new batteries or different types of batteries together. Remove the batteries when you are not using the system for a longer period of time. When inserting batteries be sure the polarity is respected. Make sure that the batteries are not short circuited and are not disposed in fire (danger of explosion).
- In case of improper usage or if you have opened, altered and repaired the product yourself, all guarantees expire. The supplier does not accept responsibility in the case of improper usage of the product or when the product is used for purposes other than specified. The supplier does not accept responsibility for additional damage other than covered by the legal product responsibility.

## 1. The surveillance system



### The contents of the Home Security Protector+ system:

This kit is an effective security system for your home. In this kit you can find the following components:

1. Security Base Console SC28
2. Motion Detector MS18
3. Door/Window Sensor DS18
4. Key Chain Remote Control KR18
5. Lamp/Dimmer Module LM12 or Appliance Module AM12
6. Comfort Remote Control SH600
7. AC power supply adapter PS18 for Security Base Console
8. Accessories: batteries, telephone wire, telephone plug
9. Optional accessories

*Note: Refer to label for kit content. All components of the system are available separately and are compatible with the complete system.*

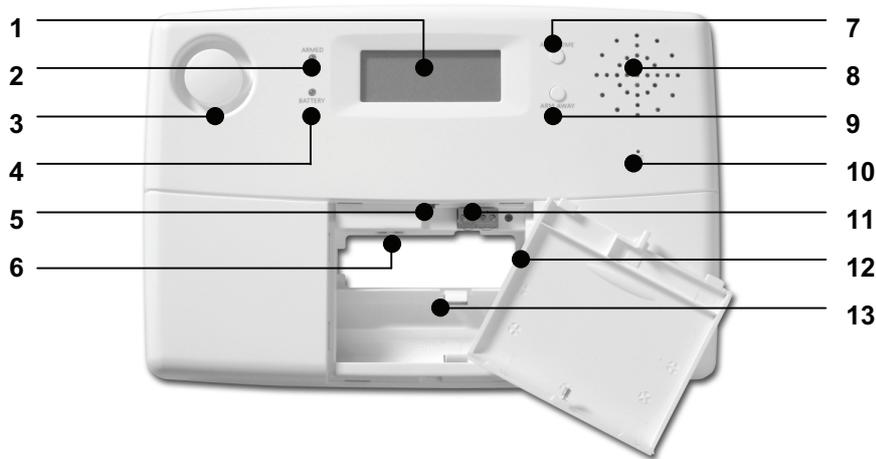
### 1.1 Important Properties and Features

- Receive a telephone message in case of an emergency, wherever you are. The built-in telephone dialler (Tone and Pulse) can dial up to six different telephone numbers.
- The person called receives a spoken message indicating a burglary, emergency alarm or mains power failure is in progress. 3 different alarm messages: custom recordable (burglary) message + fixed multi lingual emergency and power failure message. Use the phone to listen to what is causing the alarm.
- Intelligent sensor control: the console checks functions and battery status of its sensors.
- Multi lingual menu control makes installation and configuration easy.
- Register up to 30 wireless sensors with the console. Includes 2 inputs for wired sensors (zone 31+32). Selectable ALWAYS sensors for emergency purposes.
- 2 Arm Home Modes by pressing ARM HOME once or twice. ARM HOME once, only D/W sensors will be armed. Second key press arms also Motion Sensors in zones 1-16.
- Definable entrance delay on Motion Sensors registered to zones 15 and/or 16
- Can register a mix of up to 16 wireless remote controls (KR18/KR28/SH600) and/or emergency sensors.
- Silent alarm possible (no siren). Additional PH7208 siren and/or SH10 Remote Chime available.
- Dial in: by calling the system, you can control the system remotely and check the status (speech feedback). The Base Console also lets control Home Automation functions and Temperature settings.
- Status/feedback functionality with both lamp and remote chime (multi-tone).
- When triggered, zones 27-32 can give a programmable ON/OFF command to defined X10 addresses.
- 7 days timer; create events to occur only selected week, weekly or random (14 timer points).
- Prevention with so called "LIVED IN LOOK": Your lights are switched ON and OFF in such a way that it appears as if you are home, in respond to the 7 days timer.
- Can use up to 4 Thermostats TS10. Temperature points to create e.g.: Comfort, Economy and Frost Level.
- Energy saving: By pressing ARM AWAY once, Thermostat Comfort Settings remain, by pressing ARM AWAY twice thermostats controls are set to Economy. Third press will activate Frost level control.
- Dial-in and selecting Thermostat will give the option to set Thermostat 1 thru Thermostat 4 without disarming the system.
- Events log (latest 40 security events).
- Rechargeable batteries in console.

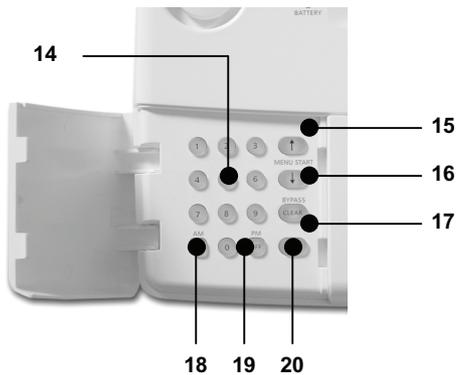
## 1.2 Signal Range

The sensors have an open air range of up to 100m, but less in a built environment. Walls, ceilings and other large object will influence the range. The range depends strongly on the property's environmental conditions. One other factor that can decrease the range is the presence of other (distorting) high-frequency signals on the same RF frequency (433MHz). RF wireless headphones and wireless speakers can influence the range. They cannot cause a false alarm. Wireless (DECT) phones or W-LAN networks do not influence the system.

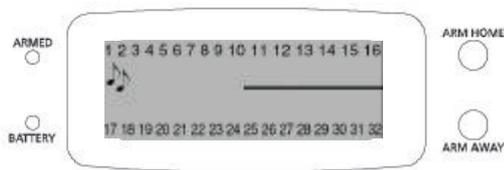
## 2. The security console



- (1) Display.
- (2) ARMED Indicator lights up when the alarm is switched on.
- (3) Built-in Siren
- (4) BATTERY Indicator lights up when the backup batteries are empty or not installed.
- (5) Tamper contact.
- (6) AC power supply adapter connections.
- (7) ARM HOME button Alarm function for when you are at home. All Door/Window Sensors are activated, but the Motion Detectors remain unarmed.
- (8) Built-in Speaker
- (9) ARM AWAY button Full alarm. All sensors are activated.
- (10) Built-in Microphone.
- (11) Wired inputs.
- (12) Telephone connection.
- (13) Emergency battery compartment. *RECHARGEABLE BATTERIES ONLY!*



- (14) Console Keypad Buttons. Used for all number entries.
- (15) Menu Start UP Used to initially enter the menu and then to move up through the items (16) Menu Start DOWN?Used to initially enter the menu and to move down through the items.
- (17) ON - Switch on a X10 Module (see 7.7).
- (18) OFF - Switch off a X10 Module (see 7.7).
- (19) OK - Confirm setting.
- (20) Clear/bypass - Used to clear entries, back up through the menu levels, and to bypass problem Door/Window Sensors or Motion Detectors.



## LCD Display

### 1. Zone numbers

Every sensor represents a so-called zone in the system. There are 30 zones for wireless sensors (numbers 1-30 on the display) and 2 zones for wired sensors (numbers 31 and 32 on the display).

Zone numbers on: Door or window is open.

Zone number flashing slowly: There is a problem with the sensor (6.5).

Zone number flashing quickly: The sensor has been "overruled" with the Bypass Function (6.5).

2. Chime ? : Chime is switched on when the system is switched off. When this function is activated, you hear a pleasant ding-dong when someone enters the house (9.2).

3. Space for menu texts and clock

## 2.1 Installing the console

### 2.1.1 Connecting the telephone wire

Open the top compartment on your console. Connect the telephone wire to the corresponding connection (12). You can fixate the wire by looping it behind the hooks on the back of the console.

#### In case of an analogue phone connection

A telephone cord terminated at each end with an RJ11 connector is provided for telephone connection. If possible, the Console should be connected to its own telephone line to ensure that the line cannot be busy when the Console attempts to dial out. For applications where this is not practical, the Console may also share a line with an existing telephone using a 'T' adapter (supplied). Insert the other end of the telephone wire into the telephone plug included and connect this to your telephone socket. Variable country telephone plugs are available upon request. Please ask your dealer for more info.

?

*In case of an ISDN connection: The console cannot be connected directly to an ISDN connection! If you are using ISDN, you need to connect the alarm system to an analogue output of your ISDN PABX system. The RJ11 terminated telephone wire included fits directly into the analogue input. If there are no analogue inputs, please use a converter (check with your telecom supplier). You will most likely have to dial a 0 on the console to get an outside land line. This 0 needs to be programmed in with the telephone numbers to be able to dial out (see 5.2).*

### 2.1.2 Connecting the AC adapter

Connect the AC adapter to the corresponding connection (6). Plug the flying lead of the adapter into a 230V/50Hz wall socket. You can fixate the wire by looping it behind the hooks on the back of the console. When connecting the adapter and opening the top compartment of your console, you will see the word TAMPER on the display. After closing the compartment, enter your PIN code (factory settings 0000, see 8.3) to remove the word TAMPER. The display now shows DISARMED and you will hear a double tone to confirm.

*NOTE1: Only use the PS18 AC adapter included with the set*

*NOTE2: When the system is in armed mode, and there may occur a mains power failure which lasts for at least 15 minutes, the console will dial out and give a message "POWER FAILURE"*

### 2.1.3 Installing the emergency batteries

The Security Console contains 4xAA rechargeable batteries for default. Just take of the discharge protection before installing the system (see small plastic flap with print "PULL" near the battery compartment). If you install new batteries, do not forget to check the polarity (+/-). Be sure to use rechargeable batteries only. After inserting the batteries and closing the compartment, enter your PIN code (factory settings 0000, see 8.3) to remove the word TAMPER. The display now shows DISARMED and you will hear a double tone to confirm.

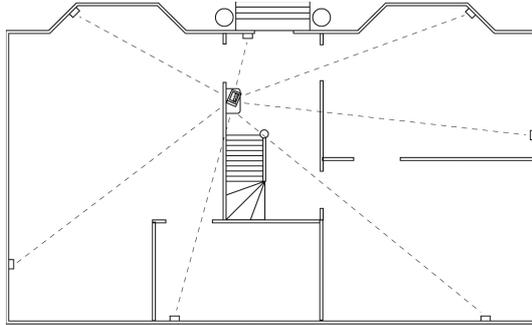
## 2.2 Locating the Security System components

Choose a good space for the console and make sure you have a wall socket (230V) and a analog telephone connection close by. For optimal range it is best to mount the console central to the objects you wish to secure. This ensures that the distance between the console and the sensors is as short as possible and the range will be sufficient. Plan the location of the Door/Window Sensors and Motion Detectors so that the RF path which runs in a straight line from sensor to Console is not obstructed by large metal objects such as a refrigerators or radiators, and passes through as few walls as possible.

You can place the console on any flat surface (table, etc.) or mount it onto the wall.

### Mounting the console onto the wall

The console can be mounted onto the wall using two screws. On the back of the console you will find two slot holes (heart to heart distance 96mm). Fitting screws are included with the set.



### Place the console on a flat surface

If you choose not to mount the console, you can attach the rubber feet-caps (included) to the back of the console. These feet-caps make sure the console will not move around when using the console.

### 2.3 The menus

After connecting the console, the display will read HOME CONTROL. The time will be displayed on the bottom line (for setting the time, see 5.1).

*If you do not see the words HOME CONTROL but TAMPER, you need to close the top compartment on the console. After closing the compartment, enter your PIN code (factory settings 0000, see 8.3) to remove the word TAMPER. The display now shows DISARMED and you will hear a double tone to confirm. Then the text HOME CONTROL will be shown.*

#### 2.3.1 Choosing your language

All menu items are displayed in English for default. You can choose any of the other available languages as follows:

- To access the menu, press the menu UP or menu DOWN button. The display now shows ENTER PIN.
- Enter the 4-digit PIN code (factory setting 0000. See 8.3 for changing the PIN code). The display is cleared and shows a \* for each number entered. When the PIN code has been entered correctly, the first menu item will show up on the display.
- Use the menu buttons UP/DOWN to go to menu item 7. Options. Press OK to select this menu item. You can also go to this menu item directly by pressing a 7 on the number pad.
- Use the menu buttons UP/DOWN to go to submenu item Languages. Press OK to select this submenu item.
- Use the menu buttons UP/DOWN to select your language. Press OK to select and confirm.
- Press Clear and afterwards 1 (=Yes) to quit the menu.

#### 2.3.2 The menu in English

The menu items in the English language menu are:

1. INSTALL Registering and de-registering sensors, remote controls and thermostats.

2. SET CLOCK Setting the clock (5.1).

3. PHONE NUMS Setting the phone numbers (5.2).

Sub-menu:

- PHONE 1
- PHONE 2
- PHONE 3
- PHONE 4
- PHONE 5
- PHONE 6

4. MESSAGE Recording and checking your own spoken message (5.3).

Sub-menu:

- 1. RECORD Record your own spoken message
- 2. REPLAY Listen to your own spoken message

5. NEWPIN Change your PIN code (8.3).

6. MEMORY CLEAR Clear all sensors, remote controls, thermostats, timers or settings (8.2).

Sub-menu:

CLEAR ALL SENSORS Remove a registered sensor.  
CLEAR ALL REMOTES Remove a registered remote control.  
CLEAR ALL TIMERS Remove all timer settings at once.  
CLEAR ALL THERMOSTATS Remove all timer settings at once.  
CLEAR LOG Remove the Event Log.  
MASTER RESET Clear the memory.

7. OPTIONS

Sub-menu:

CHIME - CHIME ON/CHIME OFF Chime on/off when system off (9.2). When the chime function is activated, the display will show a ? symbol.  
SIREN - SIREN ON/SIREN OFF: Switch off siren for silent alarm (9.1).  
HOUSE CODE: Change the House Code for Home Automation functions (10.6).  
UNIT CODE: Change the Unit Code for Home Automation functions (10.6).  
ANSWER TYPE ANSWER ON/ANSWER OFF/VOICE MAIL (11.2).  
SENSOR MODE: Use sensors as emergency sensor. See (9.5).  
SENSOR 27-32: NO+ON/OFF Used for setting zones 27 to 32 to send Home Automation ON or OFF commands on House Code +1 and Unit Code 7-12, in respond alarm trigger from respective zones 27-32 (e.g. zone 27 is related to UC 7, 29 to 9 etc).  
COMFORT: To set COMFORT, ECONOMY and FROST level temperatures.  
LANGUAGE: ENGLISH / FRANÇAIS / DEUTSCH / NEDERLANDS / ITALIANO / ESPANOL / PORTUGUESE / SVENSKA / ROMANA / TÜRKÇE.  
*NOTE: Press "0" to set timer mode, and choose EURO 7 DAY for complete feature set.*

8. DELAYS

Sub-menu:

ENTRY DELAY The time you get to switch off the system after entering your house (8.1).  
EXIT DELAY before the system will be armed on when you leave your house (8.1).  
DIAL DELAY before the system calls out in case of an alarm (8.1).  
ANSWER DELAY before the system picks up the phone when dialling in (8.1).

9. SET TIMER

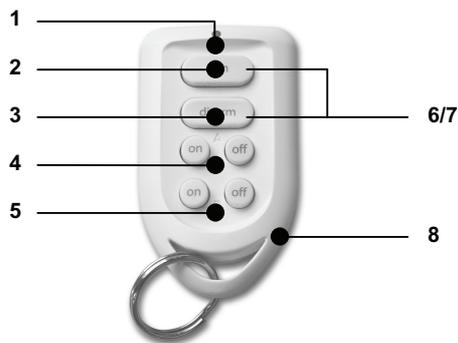
Sub-menu:

NEW TIMER Setting a new timer or thermostat setback point (7.8).

0. Events Log Overview of last 40 security events.

### 3. Installing remote controls

#### 3.1 Key Chain Remote Control KR18



##### 1. Control indicator

Comes on when the remote control sends a radio signal when keys are pressed. When the indicator blinks only weakly, the batteries have to be replaced.

##### 2. Arm

Switches on the Security System in the Arm Away Mode. All sensors are activated.

##### 3. Disarm

Switches off the Security System.

##### 4. A On / Off

Switches on / off the lights connected to the Lamp Module set to the Home Automation Base Address.

##### 5. B On / Off

Switches on / off the lights connected to the Lamp Module set to the Home Automation Base Address +1.

##### 6/7. Panic

When both keys ARM (2) and DISARM (3) are pressed simultaneously, an immediate alarm is initiated by the Security System.

##### 8. Battery holder

The back of the remote can easily be opened by taking the two parts apart. Use 2xCR2016, 3V lithium batteries.

#### 3.1.1 Using the Key Chain Remote Control

##### 1.) Batteries

A new KR18 contains batteries for default.

##### 2.) Initializing the KR18

Press the ARM key for more than 3 seconds and release the button; the indicator blinks. Release the button. The remote control has now chosen a unique code, which can be registered with your console.

*When pressing the ARM button the LED should flash quickly a few times. When the LED lights up and stays lit, you need to re-initialize the KR18*

#### 3.1.2 Registering the Key Chain Remote Control with the Console

1. To access the menu, press either the menu UP or DOWN button. The display now shows ENTER PIN.

2. Enter your 4-digit PIN code (factory setting 0000. See 8.3 for changing the PIN code). The display is cleared and shows a \* for each number entered.

3. When the PIN code has been entered correctly, the word INSTALL will show up on the display.

4. Press OK. The display now reads INSTALL ZONE.

5. Press the ARM button on your key chain remote control. The console will beep to confirm. The display will read RMDT 1SET.

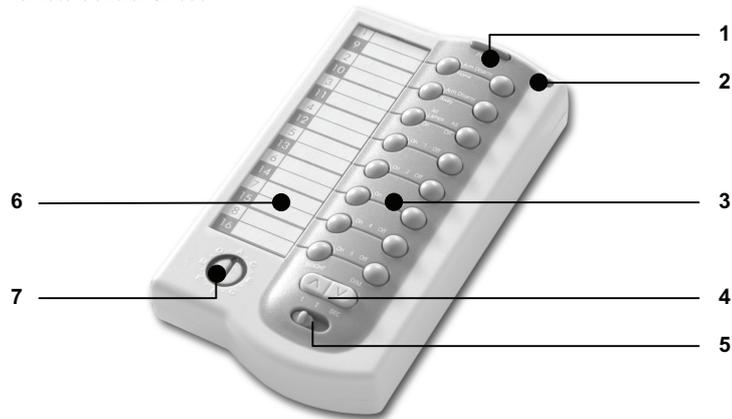
*If you have more than 1 remote control installed, it will show e.g. RMDT 2 SET, RMDT 3 SET, ... RMDT 16 SET. You can register up to 16 remote controls.*

6. Repeat step 5 for every remote control you wish to register.

7. Press CLEAR to go back to the first menu item. Press CLEAR again to quit the menu. To confirm your choice, press 1 for Yes or 2 for No. If you choose Yes, you will quit the menu. If you choose No, you go back to the first menu item. .?

*You can also remove remote controls from the menu, e.g. when you have lost a remote control. This method is described in 8.2.*

### 3.2 Comfort Remote Control SH600



#### 1. Panic

When this key is pressed, an immediate alarm will be initiated by the Security System

#### 2. Control Indicator

Comes on when the remote control sends a radio signal when keys are pressed. When the indicator blinks only weakly, the batteries have to be replaced.

#### 3. Control Keys

To control the Security System and the Home Automation Modules.

#### 4. Dimming Key

To control the light level of lamps which are connected to Lamp Modules.

#### 5. Mode Switch

The position of this switch defines the functions of the control keys.

#### Position SEC:

The top three buttons get the alarm function as described on the remote control. The next 5 buttons (1...5) are for controlling Home Automation Modules with corresponding addresses. (Unit Code 1 t/m 5).

#### Position 1:

1...8: For controlling Home Automation Modules with corresponding addresses. (UC 1 t/m 8).

#### Position 2 :

9...16: For controlling Home Automation Modules with corresponding addresses. (UC 9 t/m 16).

#### 6. Text window

On the piece of paper behind the plastic cover of the text window, you can note which Home Automation Modules can be controlled with each key.

#### 7. House Code Switch

Used for setting the X10 system Address.

#### 3.2.1 Using the Comfort Remote Control

**IMPORTANT:** When inserting the batteries, the switch should not be in setting 2!

##### 1) Install batteries

Open the battery compartment on the back of the remote control and place the battery (4x AAA, preferably use alkaline batteries). Observe polarity (+/-).

##### 2) Initializing the SH600

For activating, press the Panic Key (1) until the control indicator comes on. Set the mode switch to the SEC position.

#### 3.2.2 Registering the Comfort Remote Control with the Base Console

1. To access the menu, press the menu UP or menu DOWN button. The display now shows ENTER PIN.

2. Enter your 4-digit PIN code (factory setting 0000. See 8.3 for changing the PIN code). The display is cleared and shows a \* for each number entered.

3. When the PIN code has been entered correctly, the word INSTALL will show up on the display.

4. Press OK. The display now reads INSTALL ZONE.

5. Set the switch to SEC. Press the ARM HOME button on your Comfort Remote Control. The console will beep to confirm. The display will read RMDT 2 SET.

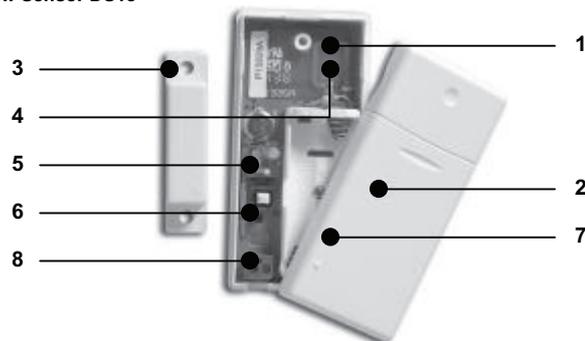
If you have more than 2 remote controls installed, it will show e.g. RMT 3 SET, RMT 4 SET, ... RMT 16 SET. You can register up to 16 remote controls.

6. Repeat step 5 for every remote control you wish to register.

7. Press CLEAR to go back to the first menu item. . Press CLEAR again to quit the menu. To confirm your choice, press 1 for Yes or 2 for No. If you choose Yes, you will quit the menu. If you choose No, you go back to the first menu item. .

#### 4. Installing the sensors

##### 4.1 Door/Window Sensor DS18



1. **Transmitter part** – Built-in antenna.

2. **Control indicator LED** – When pressing the Tamper contact button, or when the unit is transmitting a signal to the base station, this LED will light up. When the LED blinks weakly, batteries have to be replaced.

3. **Magnet contact** – The distance between magnet and contact may not be more than 5mm. When mounted, make sure the small arrows on the magnet and transmitter base part are lined up.

4. **Screw holes** for mounting the sensor.

5. **Switch for entry delays** – For setting a delay time of approximately 30 seconds.

6. **Tamper contact.**

7. **Battery compartment.**

8. **Connection for extra wired contact.**

##### 4.1.1 Mounting the Door/Window Sensor DS18

1.) Open the casing by taking the two pieces apart. Mount the transmitter part on the frame of your door or window. Do not close the casing yet.

2.) Mount the magnet on the moving part of your door or window. Make sure that the arrows on the transmitter part (see the arrow!) and the magnet are facing each other when the door or window is closed. Keep the distance between the transmitter part and the magnet (when door or window is closed) as small as possible (max. 5 mm). Door/Window Sensors may be hidden behind drapes for a more discreet installation.

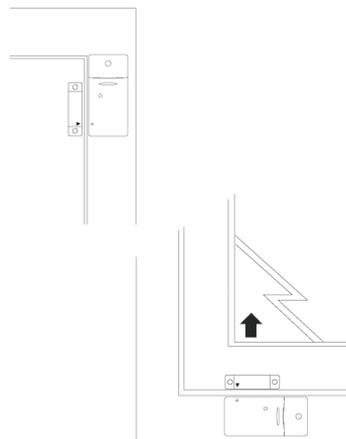
If your window or doorframe is slightly countersunk, you can also place the transmitter part and the magnet at a 90-degree angle. Once you have decided on a definite place for the sensor, we advise to also fix the magnet with screws (included).

##### Aluminium/synthetic frames

Place the sensor as high as possible: This gives the best range. Mark the place for the transmitter and the magnet. Do not place the magnet directly on a metal surface. In case of metal frames, or synthetic frames with a metal core, place a piece of wood or plastic (min. 5mm thick) between the magnet and the frame. On metal frames the space between the sensor and the magnet should be no more than 3mm when the window or door is closed.

##### Sliding windows

In case of sliding windows the sensor and magnet should NOT be allowed to slide along each other. Place the sensor and magnet in such a way that when closing the window the magnet and sensor approach each other like in the picture on the right side.



#### 4.1.2 Using the Door/Window Sensor

1. Open the casing by taking the two parts apart.
2. Insert batteries (2xAAA, alkaline) into the battery compartment. Observe polarity.
3. Set the switch for entry delay (5) to MIN when you have installed the sensor on a window and on MAX when the sensor is installed on a door. When the switch is set to MAX, you have time to open and close the door without triggering the alarm. If you want an instant alarm (on e.g. the backdoor), set the switch to MIN.
4. Activate the sensor by pressing the tamper contact (6) on the transmitter for 4 seconds. Release the button. The door/window sensor has now chosen a unique code, which can be registered with your console.

#### 4.1.3 Registering a Door/Window Sensor with the Console

1. To access the menu, press either the menu UP or DOWN button. The display now shows ENTER PIN.
2. Enter your 4-digit PIN code (factory setting 0000. See 8.3 for changing the PIN code). The display is cleared and shows a \* for each number entered.
3. When the PIN code has been entered correctly, the word INSTALL will show up on the display.
4. Press OK.
5. Open your door or window. The console will beep to confirm. The display will read ZONE 1SET.

*A memory space for a sensor is called a zone. If you have more than 1 sensor installed, it will show e.g. ZONE 2 SET, ZONE 3 SET, ... ZONE 30 SET.*

*You can choose in which zone you want to install the sensor. If you want to install the sensor in zone 3, press 3 on the number pad before executing step 5.*

*It's advisable to write down which zone contains which sensor. There's space reserved at the back of this user manual.*

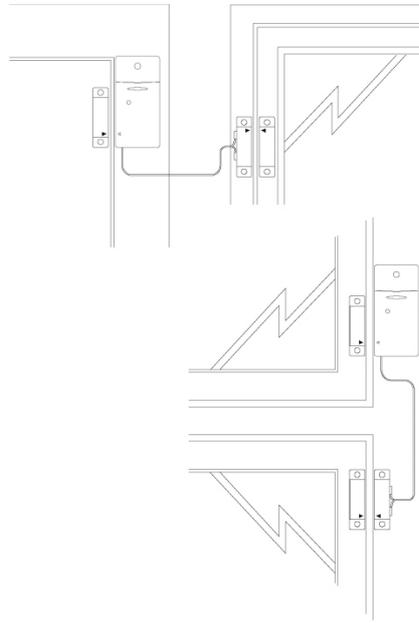
6. Repeat step 5 for every door/window sensor you wish to register.
7. Press CLEAR to go back to the first menu item. Press CLEAR again to quit the menu. To confirm this choice, press 1 for Yes or 2 for No. If you choose Yes, you will quit the menu. If you choose No, you go back to the first menu item.

#### 4.1.4 Adding a wired sensor to the D/W sensor

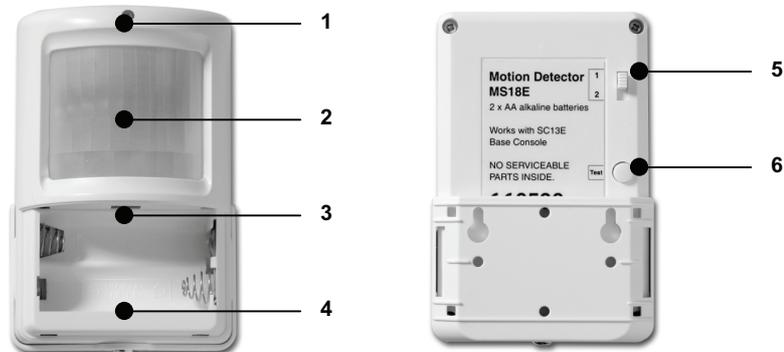
The DS18 Door/Window Sensor has a contact for an extra wired sensor. These sensors need to be of type NC (normally closed dry contacts) and there should not be any power on this contact (potential-free).

1. Open the transmitter part of the DS18.
  2. Remove the wire bridge from the connection for the wired sensor (6).
  3. Connect your additional sensor.
- The wired contact can have its dedicated zone registration on the Security Base Console. You can register the contact using the procedure as described above.

To register the sensor, trigger the alarm of your wired sensor while in registry mode.



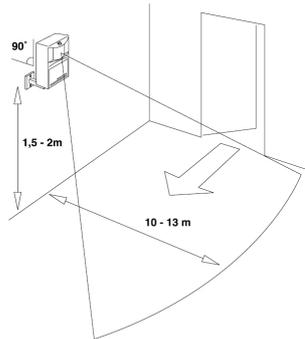
#### 4.2 Motion Detector MS18



1. **Control Indicator** - Lights up when a signal is transmitted.
2. **PIR**
3. **Tamper contact.**
4. **Battery compartment.**
5. **Sensitivity switch 1/2** - In setting 1 the sensor will instantly react to movement, in setting 2 the sensor is less sensitive and will only react after registering multiple movements.
6. **TEST button.**

##### 4.2.1 Mounting the Motion Detector MS18

The motion detector works by detecting changes in temperature. Do not mount the detector too close to a heater or air conditioner. The motion detector has a range of 12m and an angle of 90°. Because of the special lens the sensor 'looks down'. Always mount the MS18 at a height of about 180 cm from the floor and place it in such a way that the detector can cover the area you want to secure. The mounting bracket can be placed at an angle (90°) or directly against the wall.



##### 4.2.2 Using the Motion Detector

1. Open the battery compartment and insert the batteries (2xAA, alkaline).
2. Keep the TEST button (6) pressed for about 4 seconds. The LED will flash once. Release the button. The LED will flash twice. The motion detector has now chosen a unique code, which can be registered with your console. Place the motion detector upside down so that it can't detect any movement during registration.

##### Test mode: Testing the location of your motion detector

1. Set the switch (5) to 1.
2. Press the TEST button (6) until the indicator (1) flashes twice.
3. Wait 20-30 seconds.
4. Walk in front of the sensor. The indicator (1) lets you know when a movement has been detected. This allows you to check whether the sensor has been mounted on the right place.
5. Press the TEST button again to be able to use the sensor as normal.  
*After 2 minutes the motion detector will go back to the normal mode.*

##### 4.2.3 Registering a Motion Detector with the Console

1. To access the menu, press the menu UP  $\uparrow$  or menu DOWN  $\downarrow$  button. The display now shows ENTER PIN.
2. Enter your 4-digit PIN code (factory setting 0000. See 8.3 for changing the PIN code). The display is cleared and shows a \* for each number entered.
3. When the PIN code has been entered correctly, the word INSTALL will show up on the display.
4. Press OK. The display will read INSTALL ZONE.
5. Press the TEST button of the motion detector or turn it around, so that the sensor will detect movement. The console will beep to confirm. The display will read ZONE ... SET.

*A memory space for a sensor is called a zone. If you have more than 1 sensor installed, it will show e.g. ZONE 2 SET, ZONE 3 SET, ... ZONE 30 SET.*

*You can choose in which zone you want to install the sensor. If you want to install the sensor in zone 3, press 3 on the number pad before executing step 5.*

*It's advisable to write down which zone contains which sensor. There's space reserved at the back of this user manual.*

6. Repeat step 5 for every motion detector you wish to register.
7. Press CLEAR again to quit the menu. To confirm your choice, press 1 for Yes or 2 for No. If you choose Yes, you will quit the menu. If you choose No, you go back to the first menu item. .

#### **4.3 Additional (Wireless) Emergency Sensors (\*OPTIONAL)**

The Additional (Wireless) Sensor make sure you are warned in case of an emergency. When you're at home, the built-in siren will be triggered. Combined with your security system the internal siren, the telephone dialler and the lights will be activated. This gives you an optimal warning and makes sure your exits are well lit. If you are away from home, you will receive a warning via your mobile phone.

*The telephone message indicates that an Emergency Sensor has been triggered and that it is not the burglar alarm. This is done by adding an extra message to your own spoken telephone message. This standard multi-lingual message is pre-programmed into your system.*

##### **4.3.1 Registering the Additional (Wireless) Sensor with the Console**

1. To access the menu, press the menu UP or menu DOWN button. The display now shows ENTER PIN.
2. Enter your 4-digit PIN code (factory setting 0000. See 8.3 for changing the PIN code). The display is cleared and shows a \* for each number entered.
3. When the PIN code has been entered correctly, the word INSTALL will show up on the display.
4. Press OK.
5. Insert the batteries into the detector (see the user manual of the additional sensor for more information). The console will beep to confirm. The display will read RMDT 3 SET or ZONE ... SET .  
*The Additional (Wireless) Sensor works most likely the same as a remote control (panic function). It will make sure the security system will call you, even if the system is not activated. Other option is the function of a D/W sensor. If you have one or more remote controls or additional sensors installed, the display will read e.g. RMDT 4 SET, RMDT 5 SET, ... RMDT 16 SET or ZONE 2 SET, ZONE 3 SET, ... ZONE 30 SET. You can register up to 16 remote controls and/or additional panic detectors based on remote panic function, or up to 30 sensors in case of wireless alarm sensor function.*
6. Repeat step 5 for every additional sensor you wish to register.
7. Press CLEAR to go back to the first menu item. Press CLEAR again to quit the menu.

*If required you can remove Additional (Wireless) Sensors from the memory. This method is described in 8.2.*

*All information on mounting the respective detector can be found in the user manual of the respective detector.*

#### **4.4 Thermostat TS10 DigiMax210 (\*OPTIONAL)**

The DigiMax210 is available separately. Please visit [www.xtmodul.es.com](http://www.xtmodul.es.com) for more information.

##### **4.4.1 Registering a Thermostat**

1. To access the menu, press the menu UP or menu DOWN button. The display now shows ENTER PIN.
2. Enter your 4-digit PIN code (factory setting 0000. See 8.3 for changing the PIN code). The display is cleared and shows a \* for each number entered.
3. When the PIN code has been entered correctly, the word INSTALL will show up on the display.
4. Press OK. The display will read INSTALL ZONE.
5. Set the Thermostat to registering mode (see respective manual). The console will beep to confirm. The display will read THST... SET. *If you have more than 1 thermostat installed, it will show e.g. THST 2 SET, THST 3 SET, ... THST 4 SET.*
6. Repeat step 4 for every Thermostat you wish to register (up to 4).
7. Press CLEAR again to quit the menu. To confirm your choice, press 1 for Yes or 2 for No. If you choose Yes, you will quit the menu. If you choose No, you go back to the first menu item.

##### **4.4.2 Use of the TS10 Thermostats**

The RF DigiMax210 Wireless thermostat does not need any extra wiring and works within 30 meters range. It is equipped of a secured RF code which the SC28 Base Console will learn during the installation process. This code will assure that the Security Base Console or Home Controller will only answer to messages sent by your DigiMax210. You can connect up to 4 DigiMax210 to the Maxi Controller. Depending on the information sent by the thermostats, the SC28 Base Console will send X10 Home Automation Messages on the power line to turn On or Off X10 modules connected to your heaters or boiler. Besides heating the Thermostat can be used for cooling as well.

The respective Home Automation addresses are HC+1 UC13-16 for thermostats 1-4, so e.g. when Base Console has been set to default Base Address A1, T1 sends messages to B13.

## 5. Setting up the Security Console (SC28)

### 5.1 Setting the clock

1. To access the menu, press either the menu UP or DOWN button. The display now shows ENTER PIN.
2. Enter your 4-digit PIN code (factory setting 0000. See 8.3 for changing the PIN code). The display is cleared and shows a \* for each number entered.
3. When the PIN code has been entered correctly, the word INSTALL will show up on the display.
4. Use the menu buttons UP/DOWN to go to menu item 2. SET CLOCK. Press OK to select this menu item. You can also go to this menu item directly by pressing a 2 on the number pad.
5. Use the menu buttons UP/DOWN to select the correct day of the week.
6. Use the number pad to enter the new time (24 hour notation), followed by OK. The display now reads INSTALL.
7. Press CLEAR again to quit the menu. To confirm your choice, press 1 for Yes or 2 for No. If you choose Yes, you will quit the menu. If you choose No, you go back to the first menu item. .

*If you press CLEAR while entering the time, the time entered will be deleted.*

### 5.2 Storing phone numbers

The SC28 console has a built-in telephone dialler. In case of an alarm up to 6 telephone numbers can be dialled. All persons called will be able to listen to the message you have recorded (5.3). The message needs to be confirmed by the person answering the phone by pressing a 0 on their phone (DTMF response). The dialler then knows the next number does not need to be called.

**NOTE: You are not allowed to use emergency numbers, i.e. the police and security companies, unless you have been granted permission.**

First make a list with the phone numbers you want to enter, in the order they need to be dialled. If you have connected the console via an PABX phone system, you may need to add a 0, or possible other digit in front of the telephone number to get an external land line.

1. To access the menu, press either the menu UP or DOWN button. The display now shows ENTER PIN.
2. Enter your 4-digit PIN code (factory setting 0000. See 8.3 for changing the PIN code). The display is cleared and shows a \* for each number entered.
3. When the PIN code has been entered correctly, the word INSTALL will displayed.
4. Use the menu buttons UP/DOWN to go to menu item 3. PHONE NUMS. Press OK to select this menu item. You can also go to this menu item directly by pressing a 3 on the number pad.
5. Use the menu buttons UP/DOWN to go to the memory space where you want to enter a telephone number (PHONE 1 PHONE 2 ...PHONE 6).
6. Press OK when you have arrived at the memory space. After pressing OK at PHONE 1, the display will read SET PH 1
7. Enter the telephone number. Press the OFF button for a dial pause (use a dial pause between the extra 0 and the telephone number when the console is connected to a PABX phone system. A small letter P can now be noticed on the display).
8. Press OK. You will now automatically go to the next memory space.
9. Press CLEAR again to quit the menu. To confirm your choice, press 1 for Yes or 2 for No. If you choose Yes, you will quit the menu. If you choose No, you go back to the first menu item. .

*If you press CLEAR while entering a telephone number, the number entered will be deleted.*

**IMPORTANT:** It's mandatory to have all 6 positions programmed. It's allowed to program the same number on different locations, but be aware if you program less than 6 different telephone numbers, the console will try to contact you at these numbers several times in case of an alarm.

*As soon as the call is confirmed by a DTMF "0" press from a phone, the console will stop dialling.*

### 5.3 Recording your own message

You can record an own message that will be used by the telephone dialler. The message can be up to 12 seconds long. Make sure the message is not too short, because this will cause a long silence period when the message is played and repeated.

*Example: "This is the security system of ..... Press 0 after the message to hear what is going on. Please undertake action as agreed."*

1. To access the menu, press either the menu UP or DOWN button. The display now shows ENTER PIN.
2. Enter your 4-digit PIN code (factory setting 0000. See 8.3 for changing the PIN code). The display is cleared and shows a \* for each number entered.
3. When the PIN code has been entered correctly, the word INSTALL will show up on the display.

4. Use the menu buttons UP/DOWN to go to menu item 4. MESSAGE. Press OK to select this menu item. You can also go to this menu item directly by pressing a 4 on the number pad.
5. Press 1 for RECORD.
6. The display now shows PLEASE WAIT.
7. When the display reads SPEAK NOW you can record your message (max. 12 seconds). The distance to the microphone should be more or less around 30 cm.
8. After recording, wait until the RECORD/REPLAY option comes up again.
9. Press 2 (REPLAY) to listen to the recorded message.
10. Press CLEAR to quit the menu. To confirm this choice, press 1 for Yes or 2 for No. If you choose Yes, you will quit the menu. If you choose No, you go back to the first menu item.

## 6. Using the Protector+ Security System

### 6.1 Setting the alarm

The system has two different alarm functions:

- 1) **ARM AWAY**: Full alarm. All registered Sensors will be activated.
- 2) **ARM HOME**: Partial alarm. All Door/Window sensors will be activated, but the motion detectors are not armed. This means you can walk around the house, while the 'shell' of is protected.
  - a) A **single** press arms all Door/Window Sensors
  - b) A **double** press of ARM HOME results in every sensor to be active in zones 1-16 but motion detectors are still not active in zones 17-30. All Door/Window Sensors are however active in zones 17-30.

#### +Switching on the ARM AWAY function

##### *Via the console*

Press the ARM AWAY button on the console. The system will be activated after a short delay (delay can be set, see exit delay 8.1). During the delay you will hear a couple of tones at the same pitch, and the display will read EXIT DELAY.

After switching the system to ARMED AWAY mode, the entry delay will be used for DS18 Door/Window Sensors (DS18 switch set to MAX) when you enter the house. This means you have enough time to switch off the system via the console without triggering the alarm. The delay times can be changed, see 8.1. Also Motion Sensors registered to zone 15 and/or 16 will have an entrance delay according the time set. This gives the opportunity to have entrances secured via Motion Sensors.

Besides the Security function, the **ARM AWAY** button on the console reflects Temperature Setback options, to be used for energy saving:

Press the **ARM AWAY** button on the console. The system will be activated after a short delay:

- A **single** press: Thermostat remains setting of respective TS10. Display will show COMFORT.
- Press **twice**; thermostat level will be set to Economy Level. Display will show ECONOMY.
- Third** press: thermostat level will be set to Frost Level. Display will show FROST.

The first press of ARM AWAY will leave the thermostat working exactly as it would do if the system was not armed i.e. it will follow the set-point on the thermostat(s) unless there is a timer event set which could change it.

##### *Via the Key Chain Remote Control KR18*

Press the ARM button. The alarm is switched on instantly.

##### *Via the Comfort Remote Control SH600*

Set the slide switch to SEC. Press the ARM AWAY button. The alarm is switched on instantly.

#### +Switching on the ARM HOME function

##### *Via the console*

Press the ARM HOME button on the console. The alarm is switched on instantly.

- A **single** press arms all Door/Window Sensors. Display will read ARMHOME 1
- A **double** press of ARM HOME activates all Sensors in zones 1-16. Display will read ARMHOME 2.

##### *Via the Key Chain Remote Control KR18*

You cannot switch on the ARM HOME function with this remote control.

##### *Via the Comfort Remote Control SH600*

Set the slide switch to SEC. Press the ARM HOME button. The alarm is switched on instantly.

## 6.2 Panic alarm

The panic alarm can be switched on in case of an emergency, independent of whether the security system is Armed or Disarmed.

*The telephone message indicates the emergency sensor is triggered and that it is not the burglar alarm. This is done by a default extra message to your own spoken telephone message. This standard multi-lingual message is embedded into the system.*

You can activate the panic alarm in two ways:

### 1. Activate the alarm via the KR18 Key Chain Remote Control

Keep the ARM and DISARM buttons of the remote control pressed simultaneously. The panic alarm is instantly activated. Depending on the console settings the siren will or will not be activated (see 9.1).

### 2. Activate the alarm via the SH600 Comfort Remote Control

Press the red PANIC button. The panic alarm is instantly triggered. Depending on the console settings the siren will be activated or not (see 9.1).

## 6.3 What happens when the alarm is tripped

**1. Siren:** The built-in siren will be activated. You can choose to turn the siren off (silent alarm, see 9.1). If the console is working on the emergency batteries, the siren will not be used, to save battery power.

**2. The telephone dialler:** After the last digit of the first telephone number has been dialled, the spoken message will be played and repeated several times. If the call is answered by pressing "0" from the receivers phone, the console will stop calling. If the call is not answered, the second up to the sixth number are dialled until one of these calls is confirmed by pressing "0". The person who receives the phone call can listen to what is going on in the building for one minute. The siren is switched off while you are listening in. The console will remain on alert. If the alarm is triggered again later, the telephone dialler will be activated again and the complete procedure will be repeated.

## 6.4 Disarming the system

Press DISARM on your remote control. The display will indicate the zone that is causing the alarm. To remove this message, press ARM and then DISARM.

You can also switch off the system by entering your PIN code on the number pad of the console. After entering your PIN code the display will read DISARMED.

## 6.5 Error messages

The numbers 1–32 in the display refer to up to 32 zones (read sensors). These represent up to 30 Door/Window Sensors and/or Motion Detectors you install, plus the 2 hard wired zones. The numbers show open zones, problem zones and bypassed zones by being displayed as steady on (door or window open), slow flash (there's a problem with that zone) or fast flash (that zone has been bypassed). Attempting to arm with an open or problem zone makes the Console beep continuously and it will display in words on the display what the cause is, but only for one zone at a time. Bypassing that zone (by pressing the CLEAR button) moves on to the next problem zone, if there is one.

The status of all sensors is checked after the security system is switched on. If a problem is found, you will hear the two-tone 'problem signal'. If a sensor (e.g. zone 9) indicates there is a problem, a message is shown on the display:

- An open window or door: OPEN ZONE 9
- A tamper message: TAMPER ZONE 9
- Empty batteries or range problems: PROBLEMZONE 9

*The console and the DS18 and MS18 Sensors are equipped with a tamper contact. If anyone tries to open the console or sensor while the alarm is activated, the alarm will trip. If the alarm is NOT activated, you will see an error message on the console's display.*

## 7. Prevention and comfort - 'Home Automation'

### 7.1 Introduction

X10 Home Automation makes your home more comfortable, saves energy and offers security, both when you are at home and away. For some people Home Automation means setting the lights with the same remote control they use for the TV; for others it is a completely computerised system that is fully adjustable to their way of life. X10 Home Solutions offers you the choice.

Your system is equipped with functions to secure your home. The system uses an intelligent process to control the lighting in your house, so that it appears as if you are at home.

The X10 technology also offers you several so-called comfort functions. You can e.g. wireless control lamps connected to Lamp/Dimmer Modules with your remote control or via the keypad on your console.

Every lamp or appliance controlled by the system needs to be equipped with an X10 receiver module. These modules are easy to install (Plug & Play) and are also available separately, which means you can expand the system as you wish and when you wish.

A few of the Plug & Play modules:

LM12 Lamp/Dimmer Module Plug-in module to switch and dim lighting.

AM12 Device/Switch Module. Plug-in module to switch lighting and electrical equipment.

LM15 Bayonet Lamp Module or Screw-In Lamp Module to switch lighting.

More information on these modules can be found on [www.x10modules.com](http://www.x10modules.com) or you can contact your local dealer.

### 7.2 Addressing your modules

An address can be set for every X10 module. This address consists of a HOUSE CODE (A-P) and a UNIT CODE (1-16). The HOUSE CODE of all your components needs to be set to the same letter code (Note: Check also 10.6 for more info before setting the addresses). With the UNIT CODE you can give every module its own number, so that they can be individually controlled (via the number pad on your console, with the SH600 Comfort Remote Control, or any other X10 compatible controller).

### 7.3 Installing the LM12 Lamp/Dimmer Module

1. HOUSE CODE SWITCH: To set up the system address.

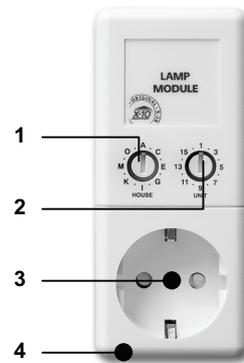
2. UNIT CODE SWITCH: To set up the module number.

3. WALL SOCKET: To connect the lamps you want to switch using the module.

4. FUSE (at the back): The fuse protects the lamp/dimmer module against a power overload. If the fuse blows, it can only be replaced by another fuse of the same type.

#### INSTALLATION LM12:

Plug the lamp/dimmer module into a free wall socket (230V/50Hz) and plug your lamp (40-300W) into the module. To avoid damage, do not plug in any other loads - such as household equipment or TL/PL lights - into the module. Use an AM12 Appliance/Switch Module or a LM15 Lamp Module for these types of loads.



### 7.4 Alarm functions of the Lamp/Dimmer Modules

When Arming the system via the console, the lamps on A1 and A2 will be switched on during the Exit Delay. As soon as the system is activated, the lamp will be switched off.

When Arming the system via remote control, the lamps will be switched on and off quickly to indicate the system is activated (comparable to the alarm system of a car).

In the case of an alarm the lights connected to lamp/dimmer modules with addresses A1 and A2 will flash. After 4 minutes the lights will remain on.

### 7.5 Comfort functions of the KR18 Key Chain Remote Control

Switch and dim lights remotely. Switch the garden lamps when you enter your property, never enter your home in the dark.

Press the **A LIGHTS ON** or **B LIGHTS ON** button. The lamps on respective address A1 or A2 will be switched On.

Press the **A LIGHTS OFF** or **B LIGHTS OFF** button. The lamps on respective address A1 or A2 will be switched Off.

### 7.6 Comfort functions of the SH600 Comfort Remote Control

Switch appliances and dim lights remotely. Close the garage door and switch on the air-conditioning from your bedroom. Dim lights in the hallway.

**Slide switch position SEC:** The lower five button combinations are used to switch the X10 modules with corresponding addresses (Unit Codes 1-5).

Use the blue button to **DIM/BRIGHT** lamps connected to a Lamp/Dimmer Module.

**ALL LIGHTS ON:** To switch on all lamp/dimmer modules with one press of a button.

**ALL LIGHTS OFF:** To switch off all the modules (both lamp and appliance modules) with one press of a button.

**Slide switch position 1:** 1 ... 8: To switch X10 Home Automation with corresponding addresses (UC 1-8).

**Slide switch position 2:** 9 ... 16: To switch X10 Home Automation with corresponding addresses (UC 9-16).

### 7.7 Comfort functions of the security console

You can also control the modules using the console. If you do not see a menu item, the console is in HOME CONTROL mode. The display shows HOME CONTROL. To control a module with Unit Code 1, press "1" followed by "ON" or "OFF". If you want to control module 12, press "1", then "2", followed by "ON" or "OFF".

The ALL LIGHTS ON function can be send by pressing "0" followed by "ON", the display will show LIGHTS ON. ALL UNITS OFF can be send by pressing "0" followed by "OFF", the display will show ALL OFF.

### 7.8 Timers

*The console can turn on and off lighting and appliances at pre-programmed times, so that it appears as if you are at home, the so called LIVED IN LOOK. You can also program timed temperature setbacks .*

#### 7.8.1 Setting the console mode

1. To access the menu, press the menu UP or menu DOWN button. The display now shows ENTER PIN.
2. Enter your 4-digit PIN code (factory setting 0000). For every digit entered, a \* will appear.
3. When the PIN code has been entered correctly, the word INSTALL will show up on the display.
4. Use the menu buttons UP/DOWN to go to menu item 7. OPTIONS. Press OK to select this menu item. You can also go to this menu item directly by pressing a 7 on the number pad.
5. Press "0" on the number pad. Use the menu buttons UP/DOWN to choose EURO 7 DAY. Press OK.
6. Press CLEAR again to quit the menu. To confirm your choice, press 1 for Yes or 2 for No. If you choose Yes, you will quit the menu. If you choose No, you go back to the first menu item. .

#### 7.8.2 Setting Timers

1. To access the menu, press the menu UP or menu DOWN button. The display now shows ENTER PIN.
2. Enter your 4-digit PIN code (factory setting 0000. See 8.3 for changing the PIN code). The display is cleared and shows a \* for each number entered.
3. When the PIN code has been entered correctly, the word INSTALL will show up on the display.
4. Use the menu buttons UP/DOWN to go to menu item 9. SET TIMER. Press OK to select this menu item. You can also go to this menu item directly by pressing a 9 on the number pad.
5. The display will read NEWTIMER. Press OK.
6. When set to 7-days mode (see 7.8.1), the display will read 1 HOME CNTRL and 2. HEAT / COOL, select respective timer to set; either option 1 for control of lights and appliances, or option 2 for timed temperature setbacks.

*Use the menu buttons UP/DOWN to check timers you previously set. The top menu item is always called NEW TIMER, unless all 14 timer points have been set.*

7. The display will read CHOOSE DAYS. Use the number keys to enter the DAYS, where 1=Monday, 2= Tuesday and so on. When the days are set, press OK.

**8a).** HOME AUTOMATION TIMER: The display will read UNIT NUMBER or THST. Use the number pad to enter the UNIT CODE of the desired module (1-16) or the Thermostat nr (1-4). Example: If you enter 12, the display will read TIMER 12 ON. The lowest line will read " : " .

**8b).** TEMPERATURE SETBACK: In case the Temperature setback is chosen, an extra choice has to be made, regarding which temperature level has to be used during the timed event. Choose either COMFORT (which is the comfort level set to the console for the respective thermostat), ECONOMY (setback applies for all registered Temperature Zones), or FROST (also applies for all registered thermostats at once)

9. Enter the time you want the lights to be switched on, or the timed temperature setback has to take place (24 hour notation). If you make a mistake, press CLEAR. Press ON when you only want to enter the time the lights need to be switched on.

10. Press OK. The display now reads TIMER 12 OFF. The lowest line will read " : " .

11. Enter the time you want lights to be switched off or the timed temperature setback has to stop. If you make a mistake, press CLEAR. Press OK when you do not want to enter a switch-off time.

12. The bottom line on the display now reads 1 WEEKLY

13. Use the menu buttons UP/DOWN to select:

1. WEEKLY: The timer setting is executed every week.
2. ONE WEEK: The timer setting is only used one week from today.
3. RANDOM The timer setting is executed weekly, but varies within the hour entered (if you entered 20:30, the time may vary between 20:00 and 20:59).
4. ARMED ONLY: The timer setting is only executed when the system is in ARMED AWAY mode.

14. Make your choice and press OK. The display now reads NEWTIMER.

15. Press CLEAR again to quit the menu. To confirm your choice, press 1 for Yes or 2 for No. If you choose Yes, you will quit the menu. If you choose No, you go back to the first menu item.

### 7.9 Clearing the timer settings

1. To access the menu, press the menu UP or menu DOWN button. The display now shows ENTER PIN.
2. Enter your 4-digit PIN code (factory setting 0000. See 8.3 for changing the PIN code). The display is cleared and shows a \* for each number entered.
3. When the PIN code has been entered correctly, the word INSTALL will show up on the display.
4. Use the menu buttons UP/DOWN to go to menu item 9. SET TIMER. Press OK to select this menu item. You can also go to this menu item directly by pressing a 9 on the number pad.
5. The display will read NEWTIMER.
6. Use the menu buttons UP/DOWN to check timers you set before. The timers are shown in the following format:  
ON 12:40  
OFF 18:30
7. When a timer is shown, you can press CLEAR to delete the timer.
8. You need to confirm your choice (CLEAR TIMER). Press 1 for Yes and 2 for No.
9. Press CLEAR again to quit the menu.

## 8. Advanced system functions

### 8.1 Setting the delays

You can set a number of delay times via the menu DELAYS:

**ENTRY DELAY** The time you get to switch off the system after entering your house (factory setting 30 sec).

**EXIT DELAY** before the system is switched on when you leave the house (factory setting 60 sec).

**ANSWER DELAY** before the system picks up the line when calling in (11.2, factory setting 5 sec).

**DIAL DELAY** before the system calls out in case of an alarm (factory setting 30 sec).

Setting the delays:

1. To access the menu, press either the menu UP or DOWN button. The display now shows ENTER PIN.
2. Enter your 4-digit PIN code (factory setting 0000. See 8.3 for changing the PIN code). The display is cleared and shows a \* for each number entered.
3. When the PIN code has been entered correctly, the word INSTALL will show up on the display.
4. Use the menu buttons UP/DOWN to go to menu item 8. DELAYS. Press OK to select this menu item. You can also go to this menu item directly by pressing an 8 on the number pad.
5. Select ENTRY DELAY, EXIT DELAY, ANSWER DELAY or DIAL DELAY and press OK.
6. Enter the time required (1-99 seconds). Press OK. Press CLEAR to delete the values entered.
7. Press CLEAR again to quit the menu.

*The entry delay only works for the DS18 Door/Window Sensors if set to MAX as well as Motion Sensors registered to zone 15 and/or 16. MS18 motion detectors registered to other zones will respond instantly.*

### 8.2 Clearing the memory of your security system

You can delete sensors, remote controls, timers or all settings via the menu MEMORY CLEAR.

*The PIN code is never erased. This code can only be reset by the factory.*

1. To access the menu, press the menu UP or menu DOWN button. The display now shows ENTER PIN.
2. Enter your 4-digit PIN code (factory setting 0000. See 8.3 for changing the PIN code). The display is cleared and shows a \* for each number entered.
3. When the PIN code has been entered correctly, the word INSTALL will show up on the display.
4. Use the menu buttons UP/DOWN to go to menu item 6. MEMORY CLEAR. Press OK to select this menu item. You can also go to this menu item directly by pressing a 6 on the number pad.
5. Select CLEAR ALL SENSORS, CLEAR ALL REMOTES, CLEAR ALL TIMERS, CLEAR ALL THERMOSTATS, CLEAR LOG or MASTER RESET.
6. You are now asked to CONFIRM CLR. Press 1 for Yes or 2 for No.
7. Press CLEAR again to quit the menu.

**CLEAR ALL SENSORS** Remove a registered sensor.

**CLEAR ALL REMOTES** Remove a registered remote control or Additional (wireless) sensor.

**CLEAR ALL TIMERS** Remove all timer settings at once.

**CLEAR ALL THERMOSTATS** Remove all thermostats at once.

**CLEAR LOG** Remove Event Log.

**MASTER RESET** Clear the memory completely (PIN will remain as set).

### 8.3 Changing the access code (PIN)

The access code is your personal identification code. After changing this code, you are the only one who has access to the settings on the console. You also use this code to disarm the alarm via the number pad. Make sure you memorise the code, because only the factory, or authorized representative can help you reset the code to the factory setting (0000).

1. To access the menu, press the menu UP or menu DOWN button. The display now shows ENTER PIN.
2. Enter your 4-digit PIN code (factory setting 0000). For every digit entered, a \* will appear.
3. When the PIN code has been entered correctly, the word INSTALL will show up on the display.
4. Use the menu buttons UP/DOWN to go to menu item 5. NEWPIN. Press OK to select this menu item. You can also go to this menu item directly by pressing a 5 on the number pad.
5. Enter your new PIN code (4 digits). The new PIN can be seen on the display. Check if you entered the correct PIN code and press OK.
6. Press CLEAR again to quit the menu. To confirm your choice, press 1 for Yes or 2 for No. If you choose Yes, you will quit the menu. If you choose No, you go back to the first menu item.

## 9. Advanced security functions

### 9.1 Disarming the siren for silent alarm

You can set the security system to raise the alarm without sounding the siren (just the telephone dialler and lighting). In case of a burglary, the built-in siren will not be activated (Note: other sirens installed will still work). The siren is turned on in the factory settings.

1. To access the menu, press the menu UP or menu DOWN button. The display now shows ENTER PIN.
2. Enter your 4-digit PIN code (factory setting 0000). For every digit entered, a \* will appear.
3. When the PIN code has been entered correctly, the word INSTALL will show up on the display.
4. Use the menu buttons UP/DOWN to go to menu item 7. OPTIONS. Press OK to select this menu item. You can also go to this menu item directly by pressing a 7 on the number pad.
5. Use the menu buttons UP/DOWN to go to menu item SIREN. Press OK to select this menu item.
6. Choose 1 for SIREN ON or 2 for SIREN OFF.
7. Press CLEAR again to quit the menu. To confirm your choice, press 1 for Yes or 2 for No. If you choose Yes, you will quit the menu. If you choose No, you go back to the first menu item.

### 9.2 Activating the chime

#### 9.2.1 Built in Chime

The console can, when in DISARMED mode, sound a chime –ding-dong– when a door armed with a Door/Window Sensor is opened. This ensures that you will always hear if someone is entering your house or small children open a door. This function is activated in the factory settings.

1. To access the menu, press the menu UP or menu DOWN button. The display now shows ENTER PIN.
2. Enter your 4-digit PIN code (factory setting 0000). For every digit entered, a \* will appear.
3. When the PIN code has been entered correctly, the word INSTALL will show up on the display.
4. Use the menu buttons UP/DOWN to go to menu item 7. OPTIONS. Press OK to select this menu item. You can also go to this menu item directly by pressing a 7 on the number pad.
5. Use the menu buttons UP/DOWN to go to menu item CHIME. Press OK to select this menu item.
6. Choose 1 for CHIME ON or 2 for CHIME OFF.
7. Press CLEAR again to quit the menu. To confirm your choice, press 1 for Yes or 2 for No. If you choose Yes, you will quit the menu. If you choose No, you go back to the first menu item.
8. If you see a note ? on the display, the chime is activated.

*The chime function also works for the wired inputs on zones 31 and 32.*

#### 9.2.2 SH10 Remote Chime

The separate available SH10 Security Horn / Remote Chime will respond to status and chime messages, send from the console:

- If Chime is enabled, opening of a D/W sensor results in a multi-tone from the Chime.
- Exit Delay for Arm gives single tone, every 4 seconds.

### 9.3 Using wired inputs

The SC28 console has two inputs for wired sensors. These sensors need to be of type NC (normally closed contacts). There should not be any power on these inputs (potential-free / dry).

Connecting a wired sensor:

1. Open the top compartment on your console.
2. You will see two wired inputs.
3. Remove the wire bridge and connect your wired sensor.
4. Close the top compartment of your console and enter your PIN code to remove the word TAMPER from the display.
5. The wired sensor is now ready for use.

#### 9.4 Adding a wired sensor to the Door/Window Sensor DS18

The DS18 Door/Window Sensor has an input or contact for an extra wired sensor. These sensors need to be of type NC (normally closed contacts). There should not be any power on this contact (potential-free).

A few examples:

- Securing a window with multiple magnetic contacts.
- Adding extra sensors to your system, e.g. smoke detectors, temperature sensors, sensors to detect electrical failures, etc.

1. Open the transmitter part of the DS18 by taking the two parts apart.
2. Remove the wire bridge from the connection for the wired sensor (2).
3. Connect the wired sensor.

*The wired contact has its own Zone on the Base Console. You can register the contact using the procedure in 4.1.3 (to register a sensor, activate the alarm with your sensor in step 5).*

#### 9.5 Emergency sensors (always mode)

Your system also gives you the option to turn any sensor registered with the system into a so-called emergency sensor. An emergency sensor will also activate the security system when the system is not switched on. When an emergency sensor triggers an alarm, you will hear 'Alarm cause by emergency sensor' before the spoken message you recorded. A few examples:

- A panic button connected to the wired input on the console.
- A door or window that should not be opened at any time.
- A temperature or level sensor that warns you when a certain value or level is exceeded.

Setting a sensor to always mode:

1. To access the menu, press the menu UP or menu DOWN button. The display now shows ENTER PIN.
2. Enter your 4-digit PIN code (factory setting 0000. See 8.3 for changing the PIN code). The display is cleared and shows a \* for each number entered.
3. When the PIN code has been entered correctly, the word INSTALL will show up on the display.
4. Use the menu buttons UP/DOWN to go to menu item 7. OPTIONS. Press OK to select this menu item. You can also go to this menu item directly by pressing a 7 on the number pad.
5. Use the menu buttons UP/DOWN to go to menu item SENSOR MODE. Press OK to select this menu item.
6. The display now reads SET ALWAYS SENSORS. You can see on your display (top and bottom) which zones and sensors have been registered.
7. If you want to turn zone 31 into an emergency sensor, enter 31 on the number pad and press OK. Zone number 31 will start flashing.
8. If you also want to turn zone 5 into an emergency sensor, enter 5 on the number pad and press OK. Zone number 5 will start flashing.
9. If you want to turn zone 31 into a normal sensor again, enter 31 on the number pad and press OK. Zone 31 will stop flashing.
10. Press CLEAR again to quit the menu.

*Make sure the DS18 Door/Window Sensor is set to MIN if you want the message to be passed on without a delay (see 8.1). Same applies for Motion Sensors on zone 15 and/or 16.*

#### 9.6 Sensor 27-32 ON/OFF

Used for setting zone 27 to 32 sensors to send Home Automation ON or OFF commands on House Code +1 and Unit Code 7-12, in respond to alarm triggers from sensors registered to respective zones 27-32 (e.g. zone 27 is related to UC 7, 29 to 9 etc). At present in this mode (menu options) you see the installed sensors in zones 27-32 only as numbers round the side of the display, just like for setting sensor mode. When entering the Sensor Zone number followed by ON or OFF the respective Zone number around the edge flashes to indicate it has been set to send a X10 Home Automation command which is either ON or OFF depending on the choice made.

#### 9.7 Deregistering a Door/Window or Motion Sensor

1. To access the menu, press the menu UP or menu DOWN button. The display now shows ENTER PIN.
  2. Enter your 4-digit PIN code (factory setting 0000. See 8.3 for changing the PIN code). The display is cleared and shows a \* for each number entered.
  3. When the PIN code has been entered correctly, the word INSTALL will show up on the display.
  4. Press OK.
  5. Enter the number of the zone you want to erase on the number pad and press CLEAR.
  6. You are asked to confirm CLEAR ZONE 1 YES 2. NO.
  7. Press 1 to erase the zone. The zone number is shown on the display.
  8. Press CLEAR again to quit the menu.
- Zones 31 and 32 can not be erased.*

**9.8 Power Failure Alarm:** When the system is in armed mode, and there may occur a mains power failure which lasts for at least 15 minutes, the console will dial out and give a message "POWER FAILURE"

## 10. Advanced Home Automation functions

Chapter 7 described the use of X10 Home Automation options of the security system. But there is more; besides the Plug & Play modules a large number of built-in switches, in-wall and sun blind switches, remote controls and special modules are available. With the addition of these modules you can control nearly everything that is electrically powered in your home via your security system Base Console. See [www.x10modules.com](http://www.x10modules.com) (Product group Home Automation) for more information.

The system has for default a few extra functions that use the X10 system:

### 10.1 Checking the status of the security system

Set a X10 module to address B4 (=HC+1, UC=4). This Home Automation module is now automatically switched on as soon as the security system is activated. When the system is disarmed, the module will also be switched off. Example: You can connect a table lamp to this X10 module. If the system is activated, this lamp is always turned on. This means you can instantly see if the system is activated when you are outside.

### 10.2 Installing an extra siren

#### 10.2.1 PH7208

Set the siren PH7208 to address A1 or A2 (=HC, UC=1 or 2). To avoid false alarms, the system waits 20 seconds after triggering the alarm before the siren is activated. The siren will give a strident two-tone signal for 4 minutes. After these 4 minutes the siren is automatically switched off (or sooner if the alarm is switched off).

ATTENTION: When using a security system, the extra sirens will always work in case of an alarm, even when the system is set to silent alarm! The Siren PH7208 is meant for indoor use and can be plugged into any wall socket (230V/50Hz).

#### 10.2.2 SH10 Security Horn / Remote Chime

Set the siren SH10 to address B5 (=HC+1, UC=5). ATTENTION: When using a security system, the extra sirens will always work in case of an alarm, even when the system is set to silent alarm! The Siren SH10 is meant for indoor use and can be plugged into any wall socket (230V/50Hz).

If Chime is enabled, opening a D/W sensor gives a pleasant 6 tone message. It also gives tones for Exit Delay when Arming, one single tone once every 4 seconds.

### 10.3 Using an external universal siren

You can also add sirens and flash lights that are not part of the (current) range. Please use a separately available AD10, AW12 or AM12 Appliance Module. Set this module to address B6 (=HC+1, UC=6). The module is switched on in case of an alarm and switched off after 4 minutes.

### 10.4 Transceiver function

The X10 product range contains several wireless remote controls that you can use to control your X10 modules (such as a universal remote control for your TV, audio equipment and X10). These remote controls use radio signals, which means the remote control signal goes through walls and ceilings. See [www.x10modules.com](http://www.x10modules.com) for more information. Your console will convert these remote control RF signals to X10 signals and transmit them via the power lines. You can then control the X10 modules using these transmitters.

### 10.5 All Home Automation functions at a glance

<b>Name</b>	<b>Description</b>	<b>Module set to address</b>
Comfort lighting	You can switch your lighting using the buttons Lights ON and Lights OFF on your key chain remote control.	A1 and A2 (=HC, UC=1 + UC=2)
Exit delay	Lights are switched on during the exit delay.	A1 and A2 (=HC, UC=1 + UC=2)
Alarm lighting	In the case of an alarm, the lights will flash during 4 minutes and then remain on.	A1 and A2 (=HC, UC=1 + UC=2)
Status indicator	The lights are switched on when the system is set to ARM AWAY.	B4 (=HC+1, UC=4)
Extra Siren	PH7208 Extra 110dB siren.	A1 or A2 (=HC, UC=1 + UC=2)
Extra Siren	SH10 Remote Chime.	B5 (=HC+1, UC=5)

Universal Siren	Connect an own siren to a AM12 or AD10 module.	B6 (=HC+1, UC=6)
H.A. Automation	H.A. functions in respond to sensor (27-32) when in ARMED mode and triggered.	B7 – B12 (=HC+1, UC=7-12).
Thermostats	Thermostat H.A. addresses.	B13 – B16 (=HC+1, UC=13-16).

\*This table uses the unchanged settings (House Code + Unit Code) for the basic console address. The default base address is A1.

#### 10.6 Basic address for Home Automations functions

The basic address is set to control multiple Home Automation modules on the SC28. The standard basic address is A1. The A in this address is called the House Code. The House Code of the console, the remote controls and the Home Automation modules all have to have the same letter. The 1 in the basic address is called the Unit Code. If your neighbours also have a security system, it may be necessary to change the basic addresses and the addresses of your X10 modules. If you change the House Code of the console, the addresses for the Home Automation functions (10.5) also change.

To change the House Code:

1. To access the menu, press the menu UP or menu DOWN button. The display now shows ENTER PIN.
2. Enter your 4-digit PIN code (factory setting 0000. See 8.3 for changing the PIN code). The display is cleared and shows a \* for each number entered.
3. When the PIN code has been entered correctly, the word INSTALL will show up on the display.
4. Use the menu buttons UP/DOWN to go to menu item 7. OPTIONS. Press OK to select this menu item. You can also go to this menu item directly by pressing a 7 on the number pad.
5. Use the menu buttons UP/DOWN to go to menu item HOUSECODE. Press OK to select this menu item.
6. Use the menu buttons UP/DOWN to select the desired House Code and press OK.
7. Press CLEAR again to quit the menu.

If you change the Unit Code of the console, the addresses for the Home Automation functions also change. To change the Unit Code:

1. To access the menu, press the menu UP or menu DOWN button. The display now shows ENTER PIN.
2. Enter your 4-digit PIN code (factory setting 0000. See 8.3 for changing the PIN code). The display is cleared and shows a \* for each number entered.
3. When the PIN code has been entered correctly, the word INSTALL will show up on the display.
4. Use the menu buttons UP/DOWN to go to menu item 7. OPTIONS. Press OK to select this menu item. You can also go to this menu item directly by pressing a 7 on the number pad.
5. Use the menu buttons UP/DOWN to go to menu item UNITCODE. Press OK to select this menu item.
6. Use the menu buttons UP/DOWN to select the desired Unit Code and press OK.
7. Press CLEAR again to quit the menu.

#### 10.7 Thermostats, Remote Controlled Temperature Settings

Each registered thermostat transmits the comfort set point and the ambient temperature. In the SC28 base station you can enter a Comfort level per Thermostat as well as setbacks to Economy and Frost temperature levels.

When the Security Base Console is in "DISARM" or "ARM HOME" mode, it will turn On or Off the X10 module connected to the heater or boiler depending on the ambient temperature and the comfort set point set to the thermostat. When the ambient temperature is lower than the thermostat set-temperature, an ON-message to the corresponding address will be send.

When the console is in "ARM AWAY" mode, the respective temperature point is applied as set to the thermostat, however there's also an option to select the setback temperature levels set to the console which do apply for all registered thermostats.

Suppose the ambient temperature is 20 °C, the comfort set point of the thermostat is 24°C the console will send an ON message. Suppose that now the ambient temperature is still 20°C, the economy setting is in place, set to 15°C, the console will send an OFF message.

If then a timed event is taking place, where COMFORT2 of thermostat 2 is set to 22°C, and ambient temperature measured by thermostat is still 20°C, the console will send an ON message to the respective HA address. (see chapter 7.8 for timed temperature ° events).

#### Temperature levels and settings in a glance:

<b>LEVEL</b>	<b>SET</b>	<b>USED BY</b>
Ambient temperature	Measured by individual thermostat	always
Thermostat Comfort level	Set individually per thermostat	normal mode
Console Comfort level	Set in console, per thermostat T1–T4	timed events only
Console Economy level	Set in console, applies for all Thermostats	armed / timed / phone
Console Frost level	Set in console, applies for all Thermostats	armed / timed / phone

The Console Comfort levels can only be used with timer events.

To set the different temperature levels inside the console:

1. To access the menu, press the menu UP or menu DOWN button. The display now shows ENTER PIN.
2. Enter your 4-digit PIN code (factory setting 0000. See 8.3 for changing the PIN code). The display is cleared and shows a \* for each number entered.
3. When the PIN code has been entered correctly, the word INSTALL will show up on the display.
4. Use the menu buttons UP/DOWN to go to menu item 7. OPTIONS. Press OK to select this menu item. You can also go to this menu item directly by pressing a 7 on the number pad.
5. Use the menu buttons UP/DOWN to go to menu item SET COMFORT. Press OK to select this menu item.
6. Use the menu buttons UP/DOWN to select the desired temperature setting, COMFORT1 COMFORT2 ... COMFORT4, for respective thermostats 1-4, and ECONOMY and FROST in general; press OK.
7. Use the number pad to set the corresponding absolute temperature. Press OK.
8. Press CLEAR again to quit the menu.

The TS10 Thermostat heat- and cool function as well as operating instructions are described in the manual of the DigiMax210 thermostat.

#### The setbacks can be used when in ARM AWAY mode, by Arming the system on the console direct, or remotely by phone. Response to button presses of the ARM AWAY button:

Once: remains Comfort settings as set to the individual thermostats T1 – T4.

Twice: set all thermostat levels to Economy level as set to console.

Third press: set all thermostat levels to Frost level as set to the console.

## 11. Telephone functions

### 11.1 Calling the security system

The SC28 alarm system is equipped with a call-in function. This means that you can dial in to the console remotely via any telephone or mobile phone. You can also control your lights, devices and temperature setbacks via your phone. The system has a built-in speech chip that guides you through the menus.

### 11.2 Activating the call-in function

The call-in function is switched off in the factory settings. You can switch the function on via the menu OPTIONS/ ANSWER TYPE. You can choose one of the following three options:

**ANSWER ON:** Call-in activated. The time delay before the console answers the phone can be set in the menu DELAYS/ ANSWER DELAY (see 8.1). The standard delay is 30 seconds. If you use an answer phone or voice mail, we advise you to use option 3: VOICE MAIL.

**ANSWER OFF:** the call-in function is deactivated (standard setting).

**VOICE MAIL:** Call-in activated. Choose this option when you use the standard voicemail system offered by your telecom supplier. To access the console, ring your home number twice. Let the phone ring for 10 seconds the first time. Hang up the phone and ring the number again after 10 seconds, but within 30 seconds. The console will answer the phone.

Setting the call-in function:

1. To access the menu, press the menu UP or menu DOWN button. The display now shows ENTER PIN.
2. Enter your 4-digit PIN code (factory setting 0000. See 8.3 for changing the PIN code). The display is cleared and shows a \* for each number entered.
3. When the PIN code has been entered correctly, the word INSTALL will show up on the display.
4. Use the menu buttons UP/DOWN to go to menu item 7. OPTIONS. Press OK to select this menu item. You can also go to this menu item directly by pressing a 7 on the number pad.
5. Use the menu buttons UP/DOWN to go to menu item ANSWER TYPE. Press OK to select this menu item.
6. You can now select ANSWER ON, ANSWER OFF or VOICE MAIL.
7. Use the menu buttons UP/DOWN to go to the desired menu item and press OK.
8. Press CLEAR again to quit the menu.

### 11.3 Operating the alarm functions via an outside phone

1. Call your home number. The console will answer.
2. You will hear **'Please enter PIN'**. Enter your 4-digit PIN code.
3. If your PIN is correct, you will hear **'PIN accepted'**. If your PIN is incorrect, you will hear **'Error'**.
4. Press **0** followed by **\*** to activate your security system. You will hear **'Armed Away'**
5. Press **0** followed by **#** to deactivate your security system. You will hear **'Disarmed'**
6. When you press **9 9** followed by **\***, the console will do a status check, where status can be:
  - 'ARMED HOME'**: The system is set to ARM HOME mode.
  - 'ARMED AWAY'**: The system is set to ARM AWAY mode.
  - 'DISARMED'**: The system is switched off.
  - 'EMERGENCY ALARM'**: The alarm has been triggered by a PANIC BUTTON on a remote control or an Additional (Wireless) Sensor.
  - 'ALARM IN ZONE 3'**: (example with zone 3). The alarm has been triggered by the sensor in zone 3 (wireless sensor or emergency sensor).

### 11.4 Operate lights and equipment via an outside phone

1. Call your home number. The console will answer.
2. You will hear **'Please enter PIN'**. Enter your PIN code.
3. If your PIN is correct, you will hear **'PIN accepted'**. If your PIN is incorrect, you will hear **'Error'**.
4. Press **4 \***: The X10 module with Unit Code 4 will be switched on. You will hear **'4 ON'** to confirm.
5. Press **4 #**: The X10 module with UC 4 will be switched off. You will hear **'4 OFF'** to confirm.

### 11.5 Changing Temperature Setting via an outside phone

1. Call your home number. The console will answer.
2. You will hear **'Please enter PIN'**. Enter your PIN code.
3. If your PIN is correct, you will hear **'PIN accepted'**. If your PIN is incorrect, you will hear **'Error'**.
4. Press **8 8** followed by **\*** to activate the comfort setting. The console responds **'Thermostat Setting'**
5. Press **8 8** followed by **#** to set console back to either Economy or Frost setting. The console responds either **'Economy Setting'** or **'Frost Setting'**.

**Note:** The thermostat settings **88\*** or **88#** will only work if the console is Armed Away. Otherwise you will get an **'Error'** message.

As soon as you override temperature settings by telephone the only choices are the set-point on the thermostat, economy or frost. The comfort setting of the individual thermostats which is set in the options can only be used by use of a timer event. Using the telephone to override will stop the Heat/Cool timer events from affecting the thermostat operation.

## 12. Changing Batteries

When used normally the batteries in sensors and remote controls last about a year. The life span of batteries does depend on how often a sensor is activated.

### Console – 4x Rechargeable AA batteries

**Power Failure Alarm:** When the system is in armed mode, and there may occur a mains power failure which lasts for at least 15 minutes, the console will dial out and give a message **"POWER FAILURE"**

The emergency batteries in the console ensure that even during a power cut the entire system stays operational for another 12 hours (if there is no alarm). The choice for rechargeable batteries is because of the longer lifetime, and automatic recharge ability when system is in running mode.

- If there is an alarm during a power cut, the console will not activate the siren to save battery power. The telephone dialler works normally.
- If there is a power cut and the emergency batteries are flat, all settings are stored, because these are programmed into a non-volatile memory (EEPROM). The clock will need to be reset.
- When you decide to turn off the security system for a longer period (e.g. renovation work), remove the batteries from the console to avoid them going flat.
- If the emergency batteries are empty or not installed, the BATTERY indicator on will flash.
- If you open up the battery compartment to change the batteries, the word **TAMPER** will be visible on the display. After inserting the batteries and closing the compartment, enter your PIN code (factory settings 0000, see 8.3) to remove the word **TAMPER**.

**Key Chain Remote Control KR18 – 2x CR2016 batteries**

- A new KR18 contains fully charged batteries. If the indicator light on the KR18 is not very bright, the batteries should be replaced.
- Open the remote control (back). Use CR2016, 3V lithium batteries (2x).
- To retain the unique code for the remote control, the batteries need to be replaced within 30 sec.
- If after replacing the batteries the console does not respond to your remote control, press the ARM button on your remote control for 4 seconds to reactivate the remote. Then release the button. You now need to reregister the remote control, using the procedure described in 3.1.2.

*When pressing the ARM button the LED should flash quickly a few times. When the LED lights up and stays lit, you need to reactivate the KR18.*

**Comfort Remote Control SH600 – 4x AAA batteries**

- If the indicator light on the SH600 is not very bright, the batteries should be replaced.
- First set the switch on the front of the remote control to SEC. Now open the battery compartment on the back of the remote control and replace the batteries within 30 seconds.
- If the console does not respond to your remote control after replacing the batteries, press the PANIC button on your remote control. You now need to reregister the remote control, using the procedure described in 3.1.2.

**Door/Window Sensor DS18 – 2x AAA batteries and Motion Detector MS18 – 2x AA batteries**

The console checks the battery status of the DS18 sensor. If the batteries are too weak, the console will indicate a PROBLEM and the zone number will flash.

- Normally the unique code of the sensor will remain in the memory (if you replace the batteries within 30 seconds). After replacing the batteries you can check whether the sensor still has its unique code. You do this by opening the door or window.

**DS18:** If the sensor has remembered its code, the console display will read ZONE x OPEN (zone number for X). If nothing happens, the door/window sensor needs to be reregistered (see 4.1.3). Delete zones you do not use anymore (see 9.7) or install the sensor in the same zone as before.

**MS18:** If the sensor has remembered its code, the alarm will go off when you walk past the sensor. If nothing happens, you need to reregister the motion detector (see 4.2.3). Delete the zone (see 9.7) and reregister the sensor (see 4.2.3).

### 13. Frequently asked questions

#### **Why does the security system not work?**

Check whether you see any text on the console display. If not: check whether the AC adapter is connected to the mains, whether the electrical wire is plugged into the adapter and whether the plug is connected to the console.

Check whether you can control the system via the console. If so, check whether the remote control works by checking whether the control indicator on the remote control flashes when you press e.g. the ARM button. Change the batteries if necessary and reinstall the remote control.

#### **What to do if a zone indicator flashes slowly?**

One of the sensors or motion detectors has not contacted the base console for a longer time. Check the batteries in the sensor or motion detector. Erase the zone and reregister the sensor. Move the sensor so that the signal can reach the console.

If an error is found while setting the alarm, you will hear a repeated two-tone 'error signal'. If a sensor indicates there is a problem (e.g. window opened), you can choose not to activate this sensor.

While the two-tone 'error signal' can be heard, you need to press the CLEAR button and reset the alarm. The zone indicator of the sensor concerned flashes quickly.

#### **What to do if a zone indicator flashes quickly?**

You have pressed the CLEAR button to activate the security system while a sensor or motion detector indicated an error. Solve the problem (i.e. close the window, replace the batteries) before activating the zone.

#### **What to do if you hear a repetitive one-tone signal when activating the alarm?**

This is normal. When activating the alarm there is an exit delay of one minute to leave your house. You can alter this delay (see 8.1). After one minute the tone will stop and the system will be switched on.

#### **What if you cannot switch the light on or off using the Lights ON or Lights OFF button on the remote control?**

Make sure the House Code on the console is set to A and the Unit Code to 1 (see 10.6). Set the dials on your lamp/dimmer module to House Code A and Unit Code 1.

Make sure the lamp connected to the lamp/dimmer module is on and the lamp is working. Use a different wall socket. Check whether the indicator of the remote control flashes when you press the button. If necessary replace the battery/ies.

When using multiple phases in your house, you may need to couple these phases for X10 signals. \_\_\_\_\_

#### **What if you cannot register the SH600 Comfort Remote Control with the console?**

Remove the batteries from the remote control. Keep one of the buttons pressed for a few seconds. Set the switch to SEC. Replace the batteries. Press the PANIC button until the indicator starts flashing. Reregister the remote control with the console.

#### **What to do in case of a false alarm?**

Do not mount motion detectors in direct sunlight. Mount motion detectors in such a way they are not aimed at a heater or other heat source.

#### **Is the MS18 pet-friendly?**

No. The MS18 is not specifically pet-friendly. These motion detectors do exist (not wireless). Your security system has an extra input for wired sensors (see 9.3). You can also connect the sensor to the external contact of the DS18 sensor (9.4).