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All information subject to change. Errors and omissions excepted.

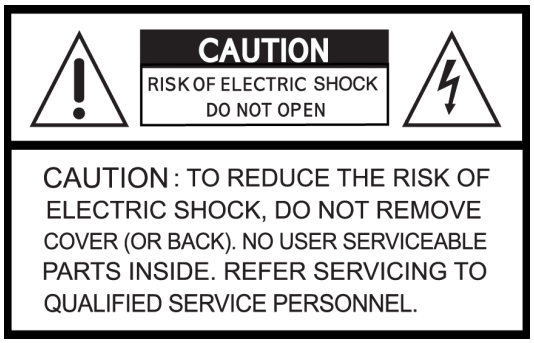
Introduction

Thank you for purchasing the LUPUSEC-XT1 wireless security system. Before you start the system, please take the time to read the following safety and installation information carefully and attentively. It is imperative to comply with these instructions in order to ensure the safe operation. If you have any further questions, please contact your local retailer or LUPUS-Electronics directly. Your LUPUSEC-XT1 was developed and built with state-of-the-art technology and complies with European and German standards. Declarations of conformity are available on request or for download at www.lupus-electronics.de.

Please keep this manual safely to be able to answer possible questions in the future. The manual is an integral part of the product even in case it is resold to a third party.

Disclaimer

All technical details and descriptions in this manual have been written with the greatest care. However, Lupus-Electronics cannot entirely exclude mistakes in this manual. Therefore, we do not assume any legal responsibility or liability, which is result of wrong information in this manual. Descriptions, technical images and technical data are subject to change according to technical progress without notice. In addition, LUPUS-Electronics reserves the right to change this product and its manual without prior notice. We do not assume any guarantee with regard to the content of this document. We appreciate any comments on mistakes or inaccuracies, which may help us to improve this product and this manual.



This symbol is intended to attract the user's attention to the potential risk of dangerous unprotected voltage inside the housing. This may lead to an electric shock.

This symbol is intended to attract the user's attention to use and maintenance instructions in the manual and documents enclosed to the product.

WARNING:

TO MINIMIZE THE RISK OF AN ELECTRIC SHOCK, YOU MUST NOT EXPOSE THIS PRODUCT TO WET AND MOIST CONDITIONS AT ANY TIME.

RoHS

All Lupus-Electronics products are lead-free and meet the requirements stated under the European Directive on the Restriction of Hazardous Substances (RoHS). This guarantees that the entire production process and the product itself are free of lead and of all listed hazardous substances.

This product was tested and complies with the regularities for a class of digital devices stated under FCC part 15. These limits were specified to provide reasonable protection against harmful exposure when operating the device in a commercial environment. This product emits and uses radio energy. It may in addition interfere with other radio communication systems, if it is not installed or used according to this manual. Using the device in residential areas may cause disturbances to be possibly remedied at the user's expense.

If installed properly according to this manual, the product complies with CE regularities. To avoid the risk of electromagnetic interferences (e.g. with radios or radio traffic), it is highly recommended to use shielded cables only.

Conformity:

The declaration of conformity is available at:

LUPUS-Electronics GmbH

Otto-Hahn-Str. 12

D-76829 Landau

Important safety information

Warning
The warranty claim will expire in case of damages resulting from the non-observance of this manual.
We do not assume any liability for consequential damages.
We do not assume any liability for damages to persons and/or material whatsoever, which result from improper handling or noncompliance with the safety instructions. The warranty claim will expire in such cases!

This wireless alarm system is equipped with a high-quality housing. However, please observe the following safety regulations:

- Never open the control unit housing! This is dangerous for you and others and your warranty will expire immediately.
- Connect this product only to the approved voltage according to this manual. Operate the alarm system only with the provided power supply unit.
- The socket must be located in an easily accessible, moisture-proof indoor location.
- Handle the alarm system with care, heavy vibration or bumps may damage this alarm system.
- Do not expose the alarm system to direct sunlight or strong heat, e.g. heaters.
- Provide for sufficient ventilation of the system. Keep a minimum safety distance of 20 cm (8 inch) on all sides.
- Do not install the alarm system close to strong electric power lines or magnetic fields, as this may impair the transmission quality significantly.
- Do not install the alarm system directly on iron or aluminium surfaces without isolating the foot of the alarm system from the floor, as this may impair the wireless transmission significantly.
- Do not install the alarm system in moist, very cold or very hot environments. Please observe the maximum humidity and temperature limits.
- Persons (including children) with limited physical, sensory, or mental abilities and/or lacking experience and/or knowledge must not use this product.
- Keep children away from the product and other connected electric appliances at all times. The alarm system includes cables, which may strangle children, and small parts, which they may swallow. Lay cables expertly so that they are neither bent nor otherwise damaged. Assemble the alarm system out of children's reach. Do not leave packaging materials unattended, they may be dangerous for playing children.
- Use a damp cloth to clean the alarm system's surface. Afterwards, dry the surface. Cleaning agents will damage the surface.

If you detect defects

If you notice any kind of defect, disconnect the alarm system from the power supply and contact your retailer. Any further usage of the system may lead to fire or electric shock!

Intended use

This alarm system is intended for attribute security purposes. Install the control unit indoors only. Any other use than described in this manual is not permitted and will lead to the expiry of any warranty or guarantee as well as to the exclusion of liability. The same applies to modifications and retrofitting.

Information on disposal:
Do not dispose of the device with the domestic waste!
This product complies with the EU Directive on waste electrical and electronic equipment (WEEE) and therefore must not be disposed of with the domestic waste. Dispose of the device via your local collection point for waste electronic equipment!

This product contains software programs subject to the GPL free software license.

This product contains software that was developed by third parties and/or software subject to the GNU General Public License (GPL) and/or the GNU Lesser General Public License (LGPL). We will send you the source code of these programs on request. The GPL and/or LGPL code used and offered in this product is EXCLUSIVE OF ANY GUARANTEE WHATSOEVER and is subject to the copyright of one or several authors. For further details, please refer to the GPL and/or LGPL code of this product and to the terms of usage of GPL and LGPL.

You can read the complete license text at http://www.gnu.org/licenses/gpl-2.0.html.
For the unofficial German translation, please go to
http://www.gnu.de/documents/gpl.de.html

Hardware description

The LUPUSEC-XT1 control unit has three different control LEDs, which inform you about the control unit's status.

1. **Network status LED**

   - Flashes green = network is being initialized or contact ID/notification syntax faulty or not entered
   - Green on = network status and contact ID/notification syntax OK
   - Red on = network connection interrupted
   - Off = no power supply or system in "Add sensor mode"

2. **Burglar alarm LED**

   - Flashes red = alarm currently active
   - Red on = control unit has an alarm in the system memory
   - Yellow on = central failure (e.g. low battery, open tamper contact, open sensors are **not** shown here)
   - Off = no abnormal messages

3. **Power LED**

   - Red on = system armed
   - Flashes red = system in Home mode
   - Green on = system disarmed
   - Flashes green = system in "Add sensor mode"
   - Off = system in "Range test mode"

1. Battery on/off switch
2. Power supply connection
3. Learn button
4. LAN port

Scope of delivery

Please check immediately after the delivery of the LUPUSEC-XT1, whether the product's scope of delivery includes the following components:

- Alarm system LUPUSEC-XT1
- Drilling template including screw set
- LAN cable
- 12 V power supply unit (power consumption: 2.1 Watt in normal state, 5 Watt with activated internal siren)

If anything is missing, please contact your retailer immediately.

Put the LUPUSEC-XT1 into operation

The following pages describe the installation and start-up of the LUPUSEC-XT1 systematically. To avoid damages to the system, please observe these instructions in detail and read the manual carefully before you start. You will find installation videos on the XT1 product page of our website (www.lupus-electronics.de).

Control unit

Take the control unit out of the packaging. Check for possible transportation damages immediately after the delivery. If you see any damage, please complain to your local retailer promptly.

Place of installation

The place of installation is crucial for the smooth operation of the system, as all sensors (door/window contacts, smoke detectors, glass breakage detectors, etc.) are connected to the control unit wirelessly (868 MHz or 2.4 GHz). Therefore, choose the place of installation to ensure the shortest airline distance between the control unit and all sensors. A central, open place is a good choice.

Furthermore, make sure that neither metals nor strong magnetic fields interfere with the radio communication.

Do not install the control unit in the following locations:

- Basements
- Close to microwaves, ovens, hobs, iron doors, or iron walls
- Garages
- Cupboards or drawers
- Do not place any objects in front of the device.
- The device is not intended for the operation in space with high temperatures or humidity (e.g. bathrooms) or excessive dust.
- Max. operating temperature and operating humidity:
  -10°C to +50°C, maximum 75 % relative humidity
- Operate the device in a moderate climate only.

Please note and/or ensure:

- That this manual might be outdated. For the latest pdf version, go to www.lupus-electronics.de or contact the Lupus support service.
- Always to provide sufficient ventilation.
- To leave a safety clearance of 10 cm on all sides.
- That no direct heat sources (e.g. air conditioning/heaters) are close to the device, which may affect the device.
- That no direct sunlight hits the device.
- That the device is not located close to magnetic fields (e.g. speakers).
- Not to place any open fire sources (e.g. candles) on or next to the device.

- To avoid the contact with splash or dripping water and aggressive liquids.
- That the device is not operated close to water. In particular, never submerge the device (do not place any objects filled with liquids, e.g. vases or drinks, on or next to the device).
- That no foreign objects enter the device.
- That the device is not subject to great temperature fluctuations, as this may cause humidity to condense and cause electric short circuits.
- Not to expose the device to excessive vibrations.

Warning

When in doubt do not assemble, install, and wire the system by yourself, but hire a specialized electrician. Improper and unprofessional execution of works at the power supply system pose a danger to you and other persons.

Install the control unit

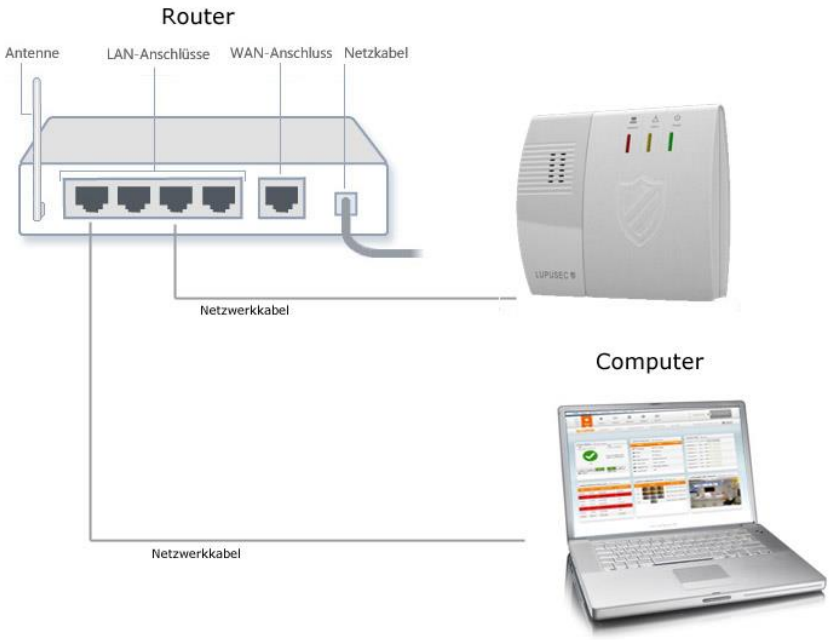
You can either position the LUPUSEC-XT1 in a central place or mount it to the wall. For the latter purpose, screws, dowels, and a drilling template are included in the scope of delivery. To mount the device to wall, remove the rubber nubs from the bottom of the device.

Connect the control unit

1. Remove the rubber cover from the back and turn the battery switch to ON.

***Note*:**
In case of power failure, the internal battery can supply the control unit with power for approx. 8 hours.

2. Connect the LAN cable to the control unit and then connect it to the router. Most routers are equipped with several ports for end devices.



3. Connect the provided power supply unit to the LUPUSEC-XT1.

The control unit needs about 30 seconds to boot.

4. If they are connected, the control unit starts. The Power LED should light up green, the Network LED flashes green, if the network is successfully detected. If no router connection can be established, the Network LED will light up orange after a short while. In that, case check the router connection and restart the control unit. If the Network LED flashes green, you can continue with the next step.

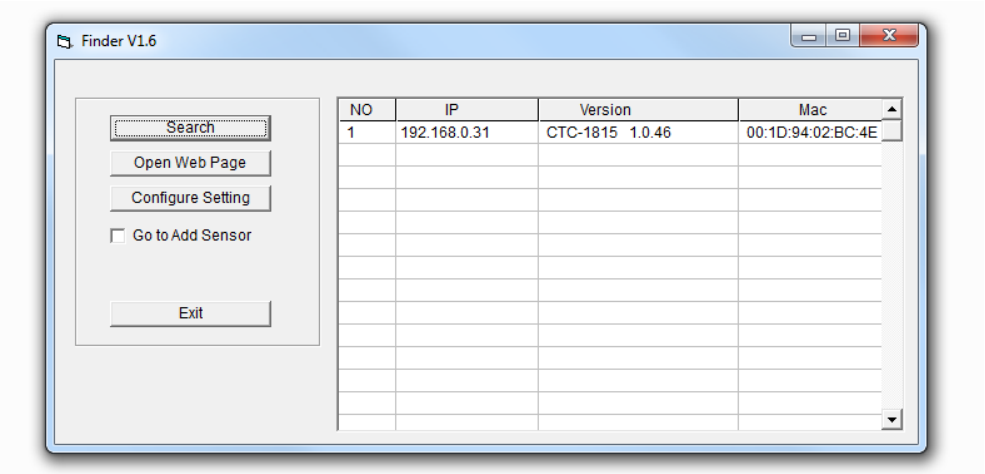
Note:
The Network LED lights up constantly green only if you assigned a notification address for the alarm center to the system.

Access to the main interface of the LUPUSEC-XT1

The control unit is administrated via a web server in the control unit. On these web pages, you can control all system functions of the XT1, add and edit sensors, arm or disarm the control unit, check for open windows or doors, and view pictures from your LUPUSNET HD network camera and recorder (if installed and connected).

To open the main menu of the control unit, proceed as follows:

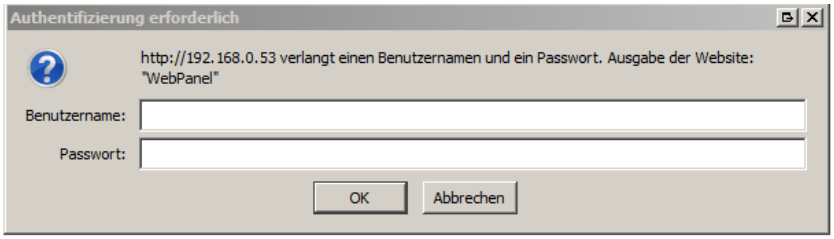
1. Start the link “LUPUSEC-XT1 network finder” from the CD (or enter the IP address of the XT1 - if already known - in your browser).



2. Click “Search”. The control unit should be found. Select the XT1 from the list with the left mouse button.

3. Click “Configure Setting”, if you want to change the IP settings of the control unit. If your network includes a DHCP server, this should not be required. Otherwise, e.g. in case of a direct connection via a crossover cable or no router/DHCP server available, you need to assign an IP address to the control unit manually, which is in the same network as your access device (PC, notebook…).

4. Double-click the found control unit or alternatively “Open Web Page”. Your standard browser opens and the connection to the XT1 is established.



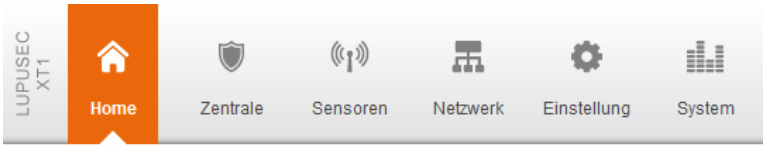
The standard user name is “admin” and the standard password “admin1234”.

Note:

- We recommend using Mozilla Firefox for web access to the XT1, which is available on the provided CD.
- After you accessed your control unit once via the IP finder, this method is not required anymore. You can save the IP address of the control unit e.g. in the list of favourites or bookmarks of your browser to access the user interface of the control unit in an easier and quicker way.

Menu description

Home menu

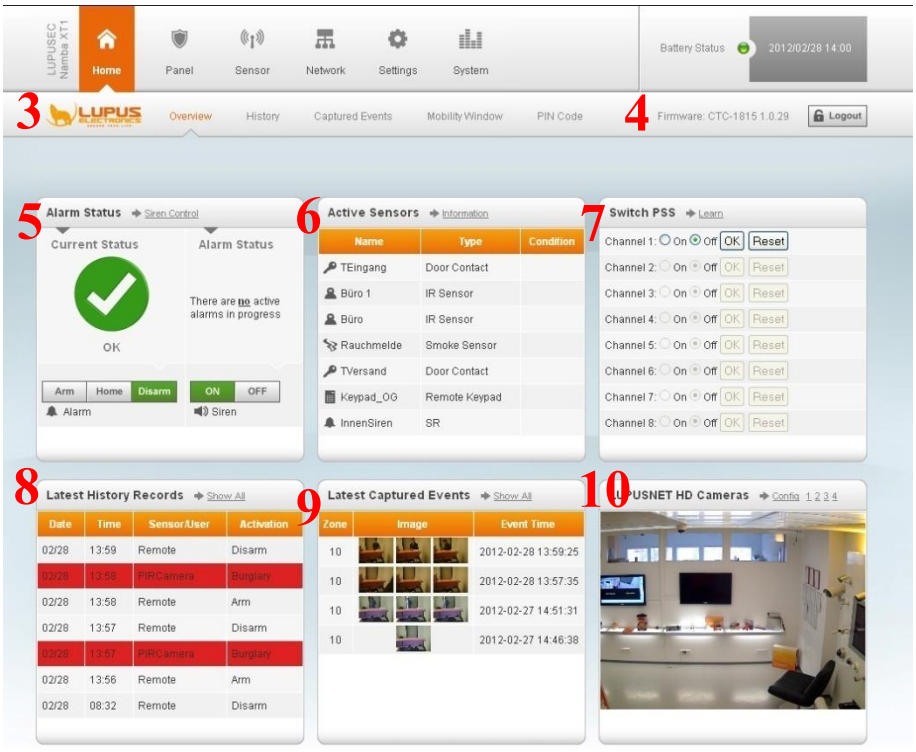


Provides you with an overview of important information all in one: overview, history, events, time frames, and PIN codes.

Overview

The main window of the LUPUSEC-XT1 shows all the important information on the status of your alarm system. You can see at a glance, whether e.g. a window is open, an alarm was triggered, a battery runs low, or live pictures from your LUPUSNET HD camera (not included in scope of delivery).

The main window comprises 10 main sections:



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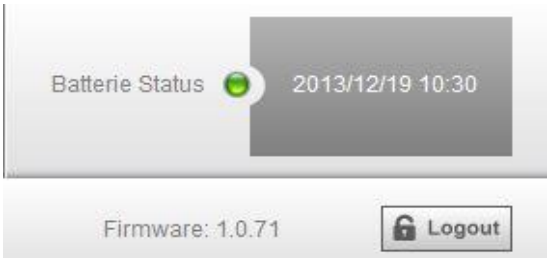
1. **The main menu:**
   Is the main control unit of the XT1. The selected main menu is always highlighted in orange. Via the main menu, you navigate to the sub-menus (9) and thus access all configuration menus of the XT1.

2. **Battery status, date, and time:**



   Shows the battery status of all sensors connected to the system. If the battery of one or more sensors is low or empty, a red dot is shown. If the battery status of all sensors is OK, the dot is green.

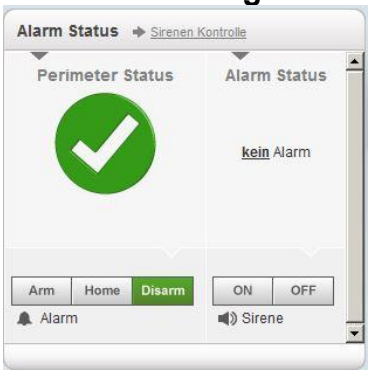
3. **The sub-menus**

   You can access the selection of various sub-menus via the main menu (1). The font colour of the selected sub-menu is orange. The displayed configuration menu changes with the selection.

4. **Firmware version, logout**

   - Shows the currently installed firmware version. Please note that Lupus Electronics offers regular updates of firmware for download in order to implement new functions or correct mistakes.
   - By means of the logout, you leave the web interface of the XT1 and log out of the control unit.

5. **The Alarm Status widget**



   - With the Alarm Status widget, you can turn the internal siren of the control

unit on/off.

- In Perimeter Status, you can see whether the alarm system is armed, disarmed, or in Home mode. You can change the mode via the Alarm buttons. You see furthermore, whether active alarms are available or not.
  - If the alarm system is set to Arm, it is armed, i.e. each activation of a sensor causes an alarm.
  - Use the Home mode to activate specific partial areas. If e.g. a motion detector is located in the kitchen, which would trigger an alarm when someone enters the kitchen at night, set the option “DC attribute” to “Home mode” in the settings of the motion detector to deactivate it in this mode. All other sensors, which do not have the Home attribute, will still trigger the alarm when the Home mode is activated.
  - If the alarm system is set to Disarm, it is disarmed and will not trigger any alarm as a rule. There are exceptions (water, medical emergency, fire alarm…), which the chapter “Edit sensor” describes in more detail.

Note:
You can activate the Home mode out of the Disarm mode only.

6. **The Sensors widget**
   Shows the most important seven sensors connected to the system. Window and door contacts are listed on top. You can see promptly, whether e.g. a sensor is open, entirely out of service, detected motions or activated tamper contacts.

7. **The Control widget:**
   If you bought PSS sensors (wireless sockets + in-wall relays) for the alarm system, you can activate or deactivate the connected devices.

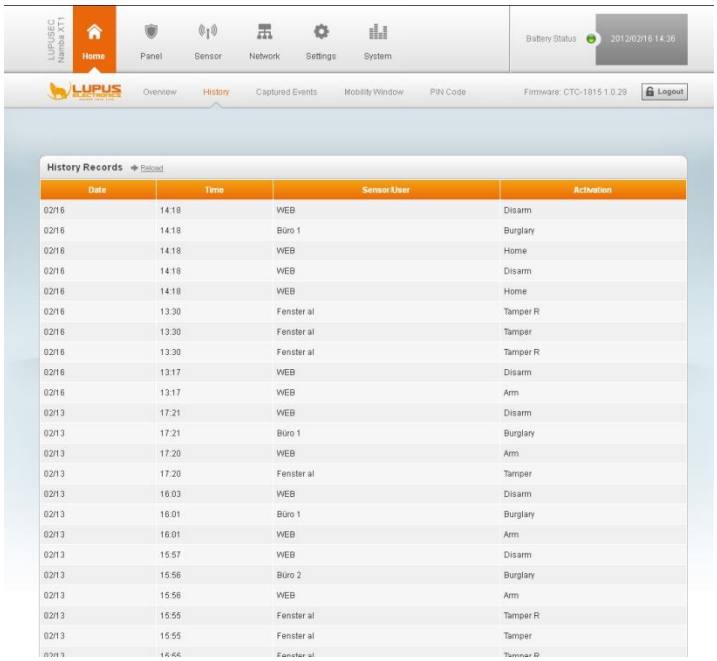
8. **The Recent Events widget:**
   Shows the last seven system events.

9. **The Captured Events widget:**
   Shows the last recorded pictures of the PIR camera(s).

10. **The LUPUS Cameras widget:**
    Shows current images of your LUPUS cameras or recorders. They must have been configured before via the menu Network → Cameras. The PIR network camera can only take pictures in the Arm mode, but cannot stream live (save battery power).

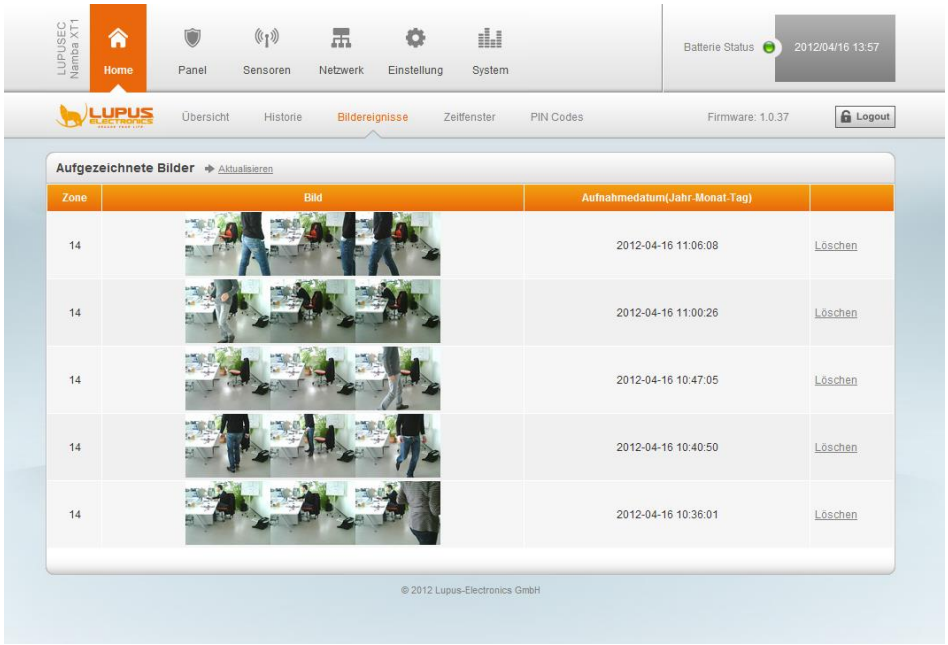
History

The history shows all status changes of the alarm system. The history lists each system message and every arming or disarming with date and time.



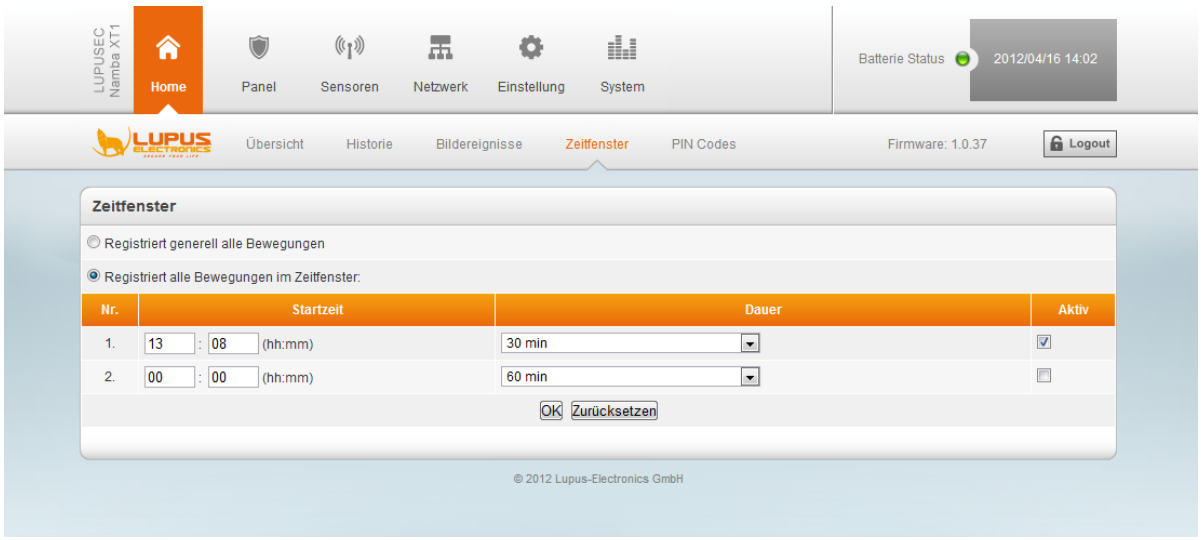
Shows the recent sensor events, sorted by date, time, sensor name, and event.

Captured events



Shows all recent recordings of motions captured by your PIR cameras, sorted by zone, picture, and recording date. Click on a recorded picture click to zoom in.

Time frame



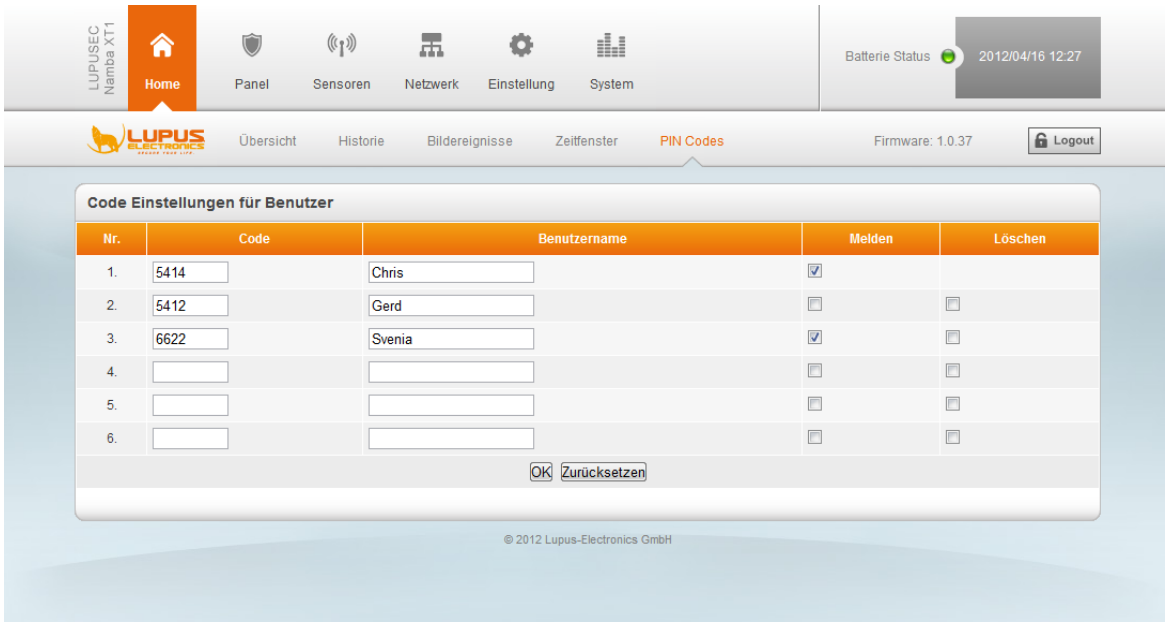
The time frame window is usually used to monitor persons in need of care.

With the first option “Register in general all motions”, the control unit will notify you of any motion detected.

With the second option, you can specify a start timer, which runs for a certain period (30, 60, 90, 120 min). If a motion is detected during this period, the timer is reset. If no motion is detected during this period, the alarm is triggered.

With the “Active” option, you can activate or deactivate the function.

PIN codes



You can enable various users to arm or disarm the alarm system by means of the keypad and their own codes. A maximum of four digits can be entered, the user name can be optionally assigned.

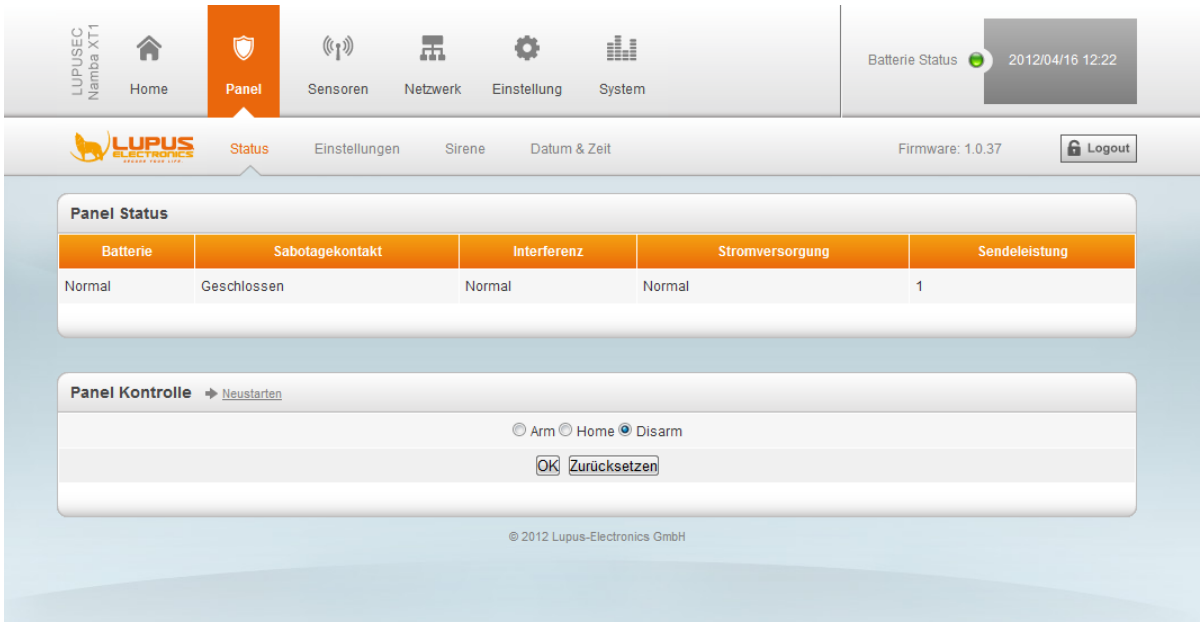
With the “Notify” option, you can be notified, whenever the respective PIN is used. With the “Delete” option, the respective PIN code is deleted. To apply the changes, click “OK”. If you want to reject the last changes, click “Reset”.

Zentrale

Control unit menu

Contains the Status menu to see possible failures of the control unit, the Settings menu for time and acoustic settings of the control unit, siren, and the Date & Time the menu.

Status

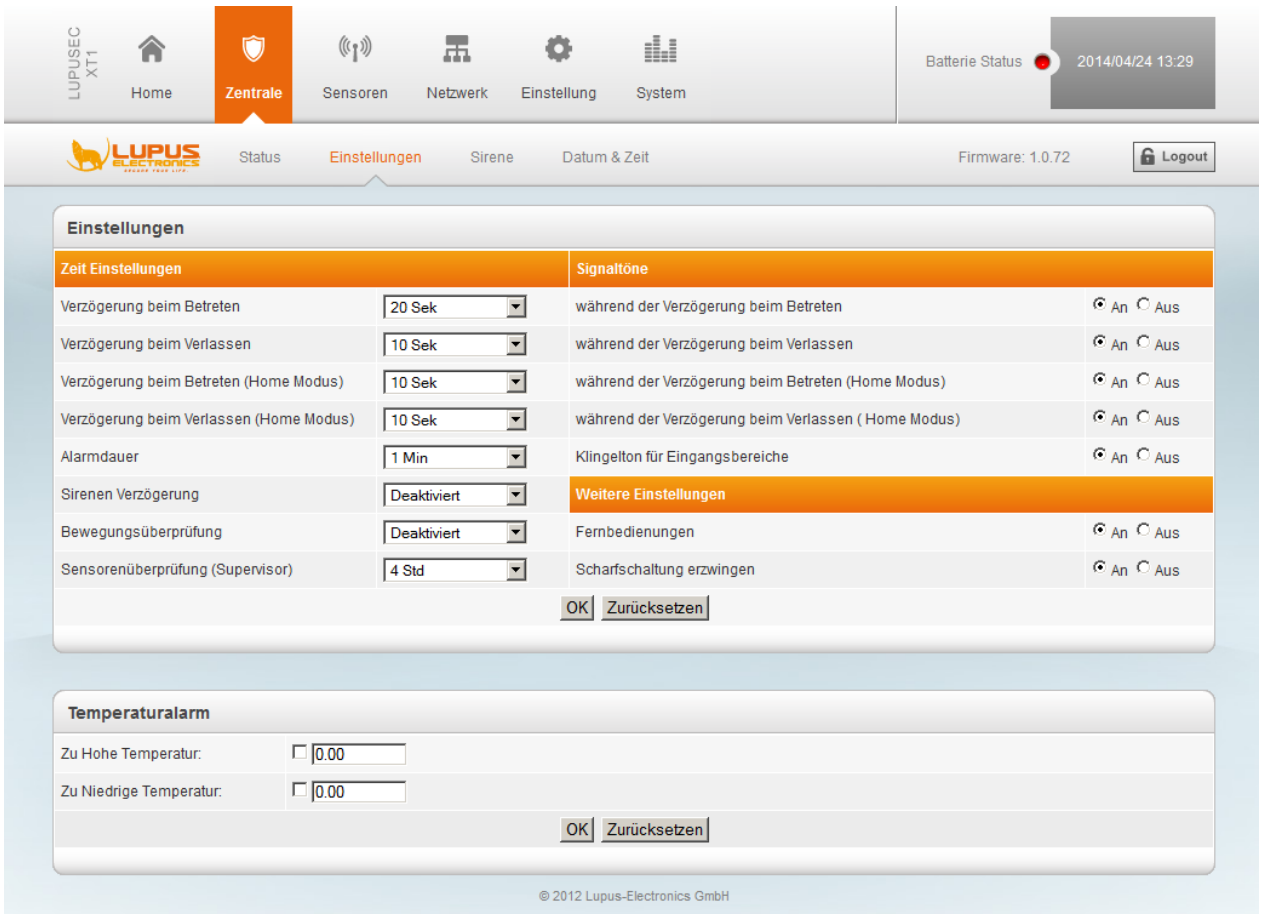


The “Status” menu shows the status of the LUPUSEC-XT1.

Status:
Shows the battery status, the tamper contact status, possible radio interferences with other transmitters, the DC power supply status, as well as the transmission power. Transmission power shows the quality of the transmission in the current environment. The smaller the number, the more optimal are the conditions on location.

Panel control:
To restart the LUPUSEC-XT1 or arm or disarm the alarm system as well as set it to Home mode.

Settings



Time settings

- **Delay upon entry**
  If someone enters the house with the LUPUSEC-XT1 being armed, you may need a while e.g. to enter the code in the keypad. Specify this delay until the alarm is triggered here. However, this delay is active only for sensors with the “Entrance area” setting. Sensors with the “Burglary” setting trigger the alarm immediately.

- **Delay upon exit**
  If you arm the alarm system e.g. to leave the house, you may need a while to lock the door from outside. Specify this delay until the system is armed here. Only after the specified time has elapsed, sensors with the “Entrance area” setting will trigger an alarm.

Note:
This function is active only for arming with keypad or remote control.

- **Delay upon entry (Home mode)**
  In the Home mode, only sensors with the “Burglary” setting can trigger alarms. If the Home mode is activated and a sensor with the “Entrance area” setting is released, the alarm is triggered only after the specified time has elapsed. This provides you with enough time to disarm the XT1.

- **Delay upon exit (Home mode)**
  If the Home mode is activated e.g. via the keypad, you usually need time to leave the premises. Specify this delay until an alarm can be triggered here.

- **Alarm duration**
  This item refers to the alarm duration of **all** integrated sirens. If an alarm is triggered and the sirens activated, specify the maximum alarm duration. If the control unit is disarmed again, the acoustic alarm goes off.

Note:
If a shorter alarm duration than in this menu item is defined by means of the DIP switches (SW3+4) of an external siren, then the alarm of the external siren is aborted prematurely. The other way round, the alarm duration of an external siren is aborted prematurely with the alarm duration as described, if a longer (maximum) alarm duration is defined by means of the DIP switches (SW3+4). If the alarm duration is „deactivated“, the external sirens will become active for the duration defined with the DIP switches (SW3+4).

- **Siren delay**
  Specifies the duration of the delay of all audible alarms internal siren + external sirens). This function is deactivated by default.

- **Motion check**
  This function is the countdown timer (default: deactivated). If the defined time elapses without being reset by a motion detector before, the XT1 control unit will send a message to the alarm center (if set-up via contact ID).

- **Sensor check**
  Motion detectors and door contacts have a “Supervisor” function, which sends data to the control unit at regular intervals to signal that the sensor is still available and functioning. You can set this function here. If no “Supervisor” signal is registered within the specified interval, the sensor is shown as “out of service”.

Signal tones

- **during delay upon entry**
  Sounds an audio warning during the time specified in “Time settings”, until the time has elapsed. This applies to sensors with the “Entrance area” setting only.

- **during delay upon exit**
  Sounds an audio warning during the time specified in “Time settings”, until the time has elapsed.

Note:
This function is active only for arming with keypad or remote control.

- **during delay upon entry (Home mode)**
  Sounds an audio warning during the time specified in “Time settings”, until the

time has elapsed. This applies to sensors with the “Home entry” setting only with the system in Home mode.

- **during delay upon exit (Home mode)**
  Sounds an audio warning, when the Home mode is activated, during the time specified in “Time settings”, until the time has elapsed.

- **Ring tone for entrance areas**
  Specify whether a signal tone is to sound, if an “entrance area” sensor is released. This applies to sensors with the “Entrance area” setting only.

Further settings

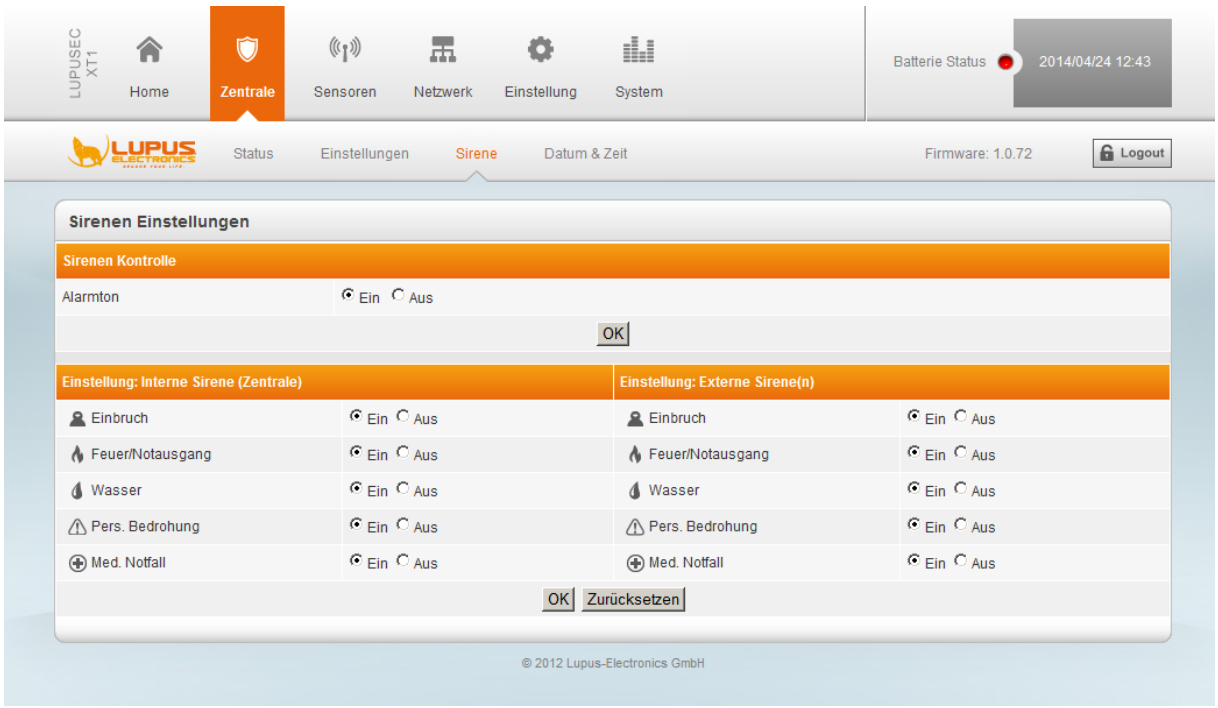
- **Remote controls**
  To set, whether or not the LUPUSEC-XT1 alarm system is to notify the alarm center if a remote control is used.

- **Forced arming**
  - **Off:** If the system is armed irrespective of failures (system errors, batteries, power supply, open detectors or general status of detectors) with the keypad or remote control, two brief tones sound to indicate a failure - the system remains disarmed. If you arm the system again within 10 seconds, the system will be armed irrespective of the failures.

***Note*:**
A list of the “failures” is shown on the web interface for about one second upon arming.

  - **On:** The system is armed directly with the keypad/remote control, irrespective of failures in the system (tamper, battery, door open, etc.).

Siren



Siren settings

Alarm tone
Activates or deactivates the internal siren of the XT1 control unit for a temporary test. This function can**not** be used to test additionally integrated sirens!

Setting: internal siren (control unit)
Use this option to set the cases in which the internal siren of the control unit is to be activated.

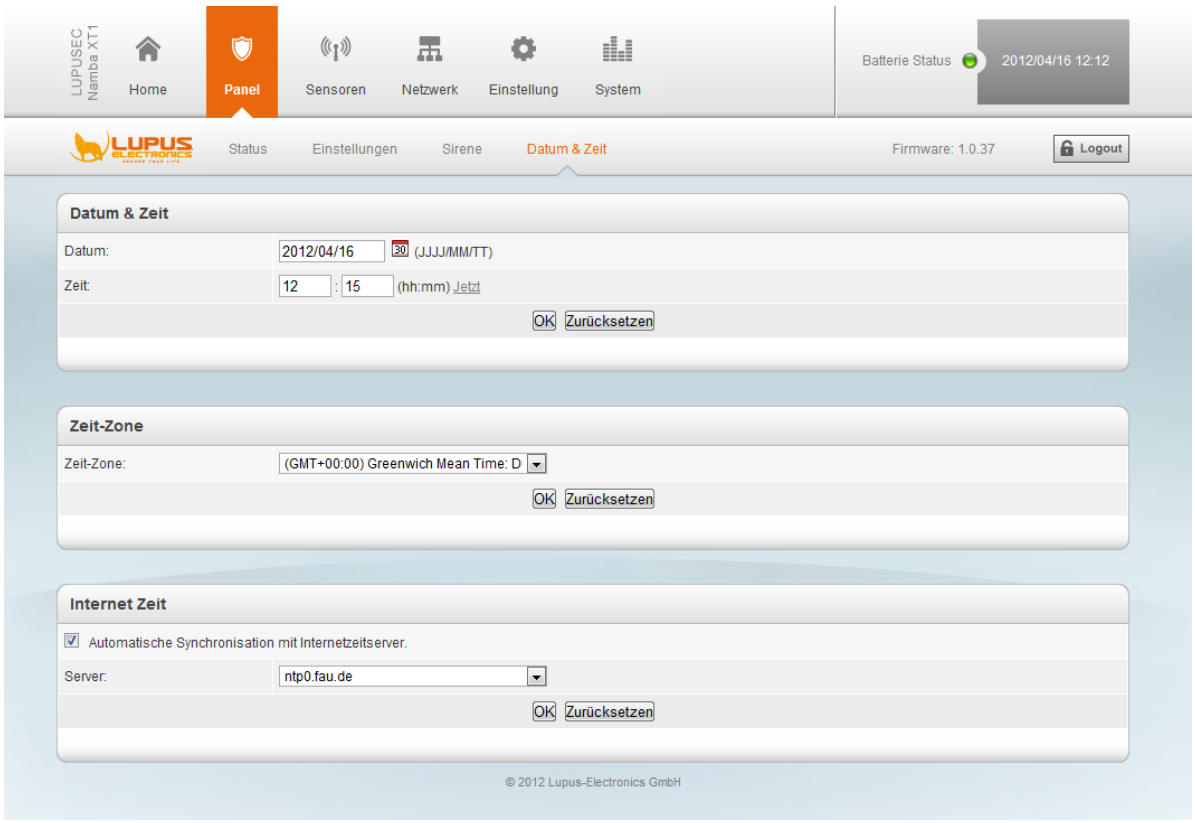
The following options are available for selection:
Burglary, fire, water, panic, medical emergency

Setting: external siren(s)
If further sirens were installed in addition to the control unit, you can specify, in which cases they are to be activated. If several external sirens were installed, you cannot configure them differently, either all external sirens sound the alarm or none of them does.

Similar to the internal siren, the following options are available for selection:
Burglary, fire, water, panic, medical emergency.

Note:
A possibly installed wireless relay reacts similarly to an external siren. If e.g. the alarm for external sirens in case of burglaries is disabled, then the wireless relay will not be activated as well in case of burglary alarm.

Date & Time



Date & Time

- **Date**
  Enter the current date (YYYY/MM/DD).

- **Time**
  Enter the current time (HH:MM). Click on "**Now**" to use the current time of your PC.

Time zone

- **Time zone:**
  Enter your current time zone. GMT+1 is used in Germany.

Internet time

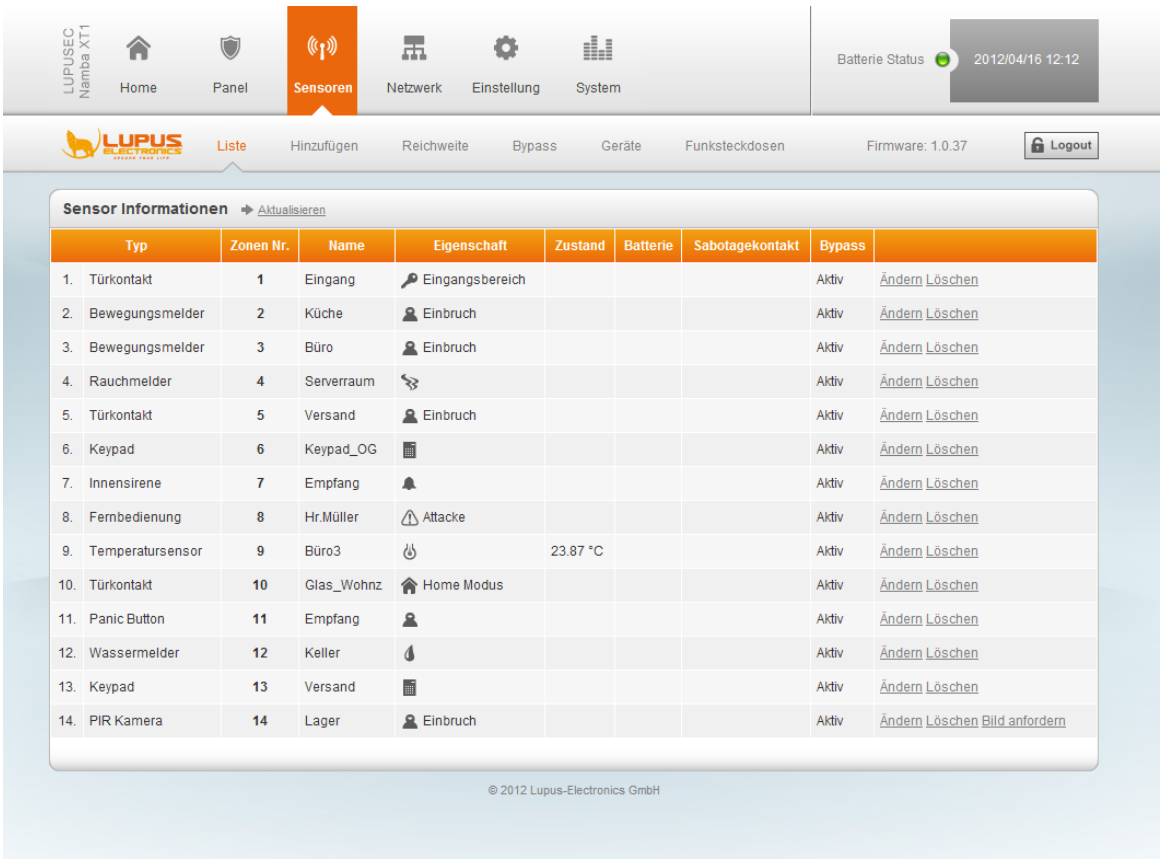
- **Automatic synchronization with internet timeserver**
  With this option active, the time of the LUPUSEC-XT1 synchronizes regularly with the specified internet timeserver (if available).

- **Server**
  Select a timeserver from the list to synchronize the current time with.

Sensors menu

Contains the “List” menu to view and adjust all connected sensors, “Add” to add new sensors to the control unit, “Range” to test the signal strength, “Bypass” to deactivate sensors, “Devices” and “Wireless sockets”.

List



The sensors menu “List” contains a list of all sensors connected to the LUPUSEC-XT1. They are listed by type, zone no., attribute, name, state, battery, tamper contact, and bypass. The last column provides you with the option to edit the sensor attributes with “Edit” or to remove the sensor from the alarm system with “Delete”. In “PIR network cameras”, you can use “Request media” to receive a current picture from the camera.

Note:
All XT1 components except wireless relays/repeaters (devices) and wireless sockets (without electric meter) are regarded as sensors. A maximum of 20 sensors can be integrated. Up to six devices (wireless relays and repeaters) and eight wireless sockets can be connected additionally.

- **Type**

Shows the sensor type, e.g. “door contact” for a window/door contact.

- **Zone no.**
  Shows the number of the zone. This is a consecutive number provided for each newly added sensor. This number is important for wireless switches (wireless socket or in-wall relay), for which a home automation rule can be set. See chapter “Automation” for more detailed information.

- **Name**
  You assign this name when you add a new sensor. It is limited to 10 characters for hardware reasons.

- **Attribute**
  Shows the selected sensor attribute. See below.

- **State**
  Shows the current state of the sensors. If the field is blank, there is no extraordinary event available. Depending on the type of sensor, the following states are possible:
  - Open = open door sensor
  - Out of order = malfunction / low battery / out of range
  - Temperature indicator in degrees Celsius
  - Power consumption in Watt

- **Battery**
  This column shows that the battery of a sensor is low or empty.

- **Tamper contact**
  If a sensor is open or removed, the tamper contact of the sensor triggers an alarm. Red shows that the tamper contact is open.

- **Bypass**
  Shows whether a bypass is active for next arming of the respective sensor. If active, it cannot trigger in the next arming phase (disabled).

Sensors settings

You can assign different attributes and actions to most of the sensors. In case of an alarm, they react in entirely different ways. Access the settings of a sensor via the following items: “List” → “Sensor list”, then click on “Edit” to the right of the sensor.

- **Name**
  You assign this name when you add a new sensor or you change the name later. It is limited to 10 characters for hardware reasons.

- **Burglary**
  If you assign the attribute “Burglary” to the sensor, then an alarm will be triggered if this sensor is triggered in “Armed mode” and in “Home mode”.

- **Home mode**
  Sensors with the “Home mode” attribute will not trigger an alarm with the alarm system in “Home mode”. An event code (#132) will be transmitted to an alarm center (if available) anyway.

Note:
With the alarm system in “Armed mode”, the “Home mode” sensors will trigger a burglary alarm as well.

- **Entrance delay**
  With the alarm system in “Armed” or “Home mode” and a sensor with the “Entrance delay” attribute being triggered, you can disarm the system within a certain time (see “Control unit → Settings → Delay upon entry”). An event code (#704) will be transmitted to an alarm center (if available) during the entrance delay.

Note:
- If the alarm system is not disarmed during the entrance delay, an alarm is triggered.
- If the LUPUSEC-XT1 is in “Disarmed mode”, the control unit will sound a signal tone, if the sensor is triggered, provided this function was activated in “Control unit” → “Settings” → “Ring tone for entrance delay”. Only the internal siren of the control unit can play this signal tone.

- **Entrance delay home mode**
  This new attribute combines the attributes of “Entrance delay” and “Home mode”. With the control unit in home mode, the sensor will not trigger an alarm. With the control unit in (full) arm mode, the sensor reacts like an entrance delay sensor.

- **Home entry**
  With the alarm system in “Home mode” and a sensor with the “Home entry” attribute being triggered, you can disarm the system within a certain time (see “Control unit → Settings → Delay upon entry (home mode)”). An event code (#130) will be transmitted to an alarm center (if available) during the entrance delay.

Note:
- If the alarm system is not disarmed during the entrance delay, an alarm is triggered.
- With the LUPUSEC-XT1 in „Armed mode“, the control unit will report a normal burglary alarm, if a sensor with the “Home entry” attribute is triggered.

- **24 hours**
  A sensor with the “24 hours” attribute is always on alert, irrespective of whether the alarm system is “armed”, “disarmed”, or in “Home mode”. If the sensor is triggered, an event code (#130) is transmitted.

- **Fire**
  A sensor with the “Fire” attribute is always on alert, irrespective of whether the alarm system is “armed”, “disarmed”, or in “Home mode”. If the sensor is

triggered, an event code (#111) is transmitted.

- **Medical emergency**
  A sensor with the “Medical emergency” attribute is always on alert, irrespective of whether the alarm system is “armed”, “disarmed”, or in “Home mode”. If the sensor is triggered, an event code (#101) is transmitted.

- **Water**
  A sensor with the “Water” attribute is always on alert, irrespective of whether the alarm system is “armed”, “disarmed”, or in “Home mode”. If the sensor is triggered, an event code (#154) is transmitted.

- **Technical alarm**
  If the LUPUSEC-XT1 is in armed or disarmed mode and a sensor with the “Technical alarm” attribute is triggered (e.g. door contact or motion detector), the control unit receives this alarm (#611). An acoustic alarm is not emitted.

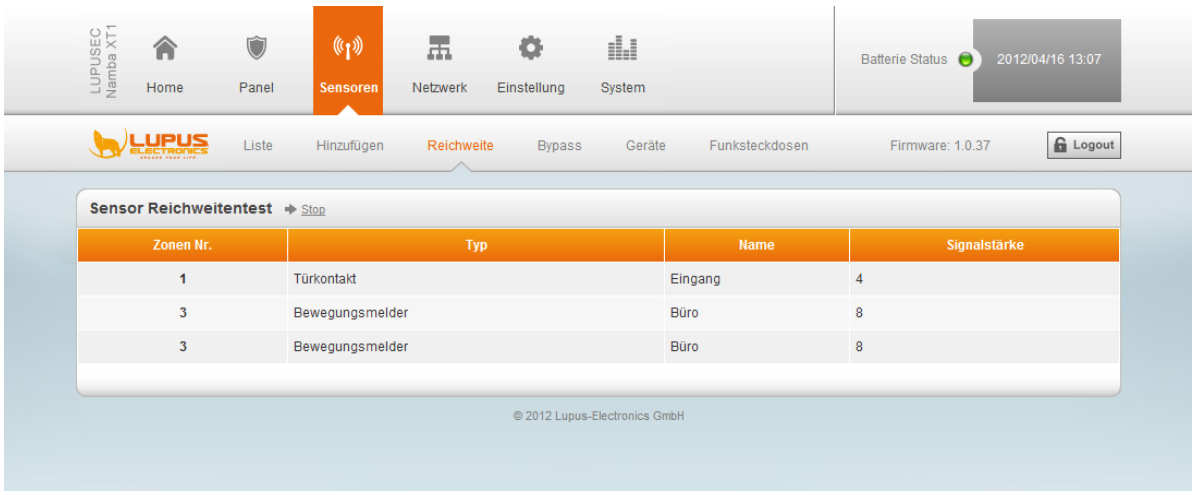
Add

In the “Add” menu, you can add sensors to the LUPUSEC-XT1. Simply click “Start” next to “Add” to start the automatic sensor search. Then, start the test of the (“Learn”) mode of the sensor to install. Read the sensor description to find out, how to add the sensors. Usually, the sensor is equipped with a button to be pressed for a certain time.

If the sensor was found, it is listed in the table, which also shows the type of contact (“Type”), the reception quality (“Signal strength”) and the unique “Sensor ID” of each sensor.

You can add the sensor to the alarm system via the option “Add”. You can assign properties to the added sensor, as explained in the previous section “Sensor settings”.

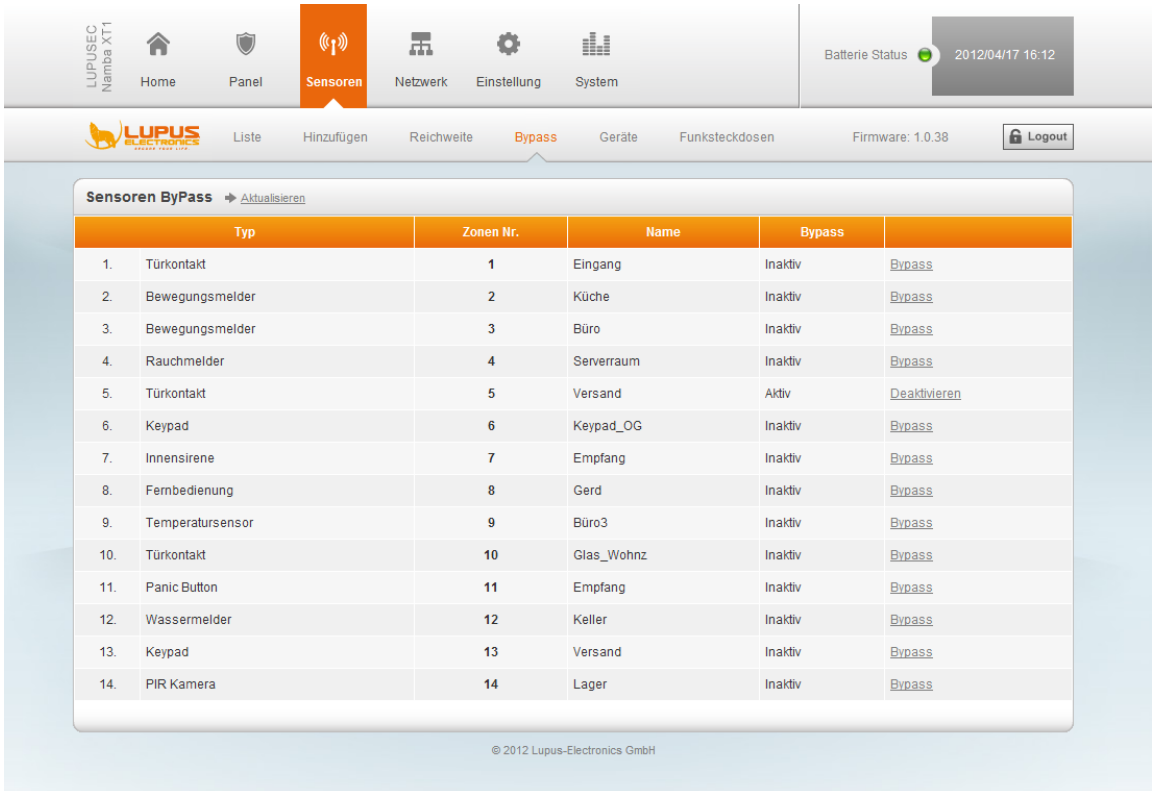
Range



Test the sensor range with the “Range” function. After having successfully added a sensor, click “Start” in the “Range” menu. Take the sensor to the intended point of installation. Press the Test button of the sensor for a certain time (see sensor descriptions) to start the sensor test mode. If the control unit detects the sensor, it will inform you with a short acoustic signal.

The “Signal strength” in the “Range” menu shows the reception quality. A signal strength of 9 is the best possible value and a signal strength of 1 the worst possible. To ensure a loss-free alarm signaling, this value should be at least 3.

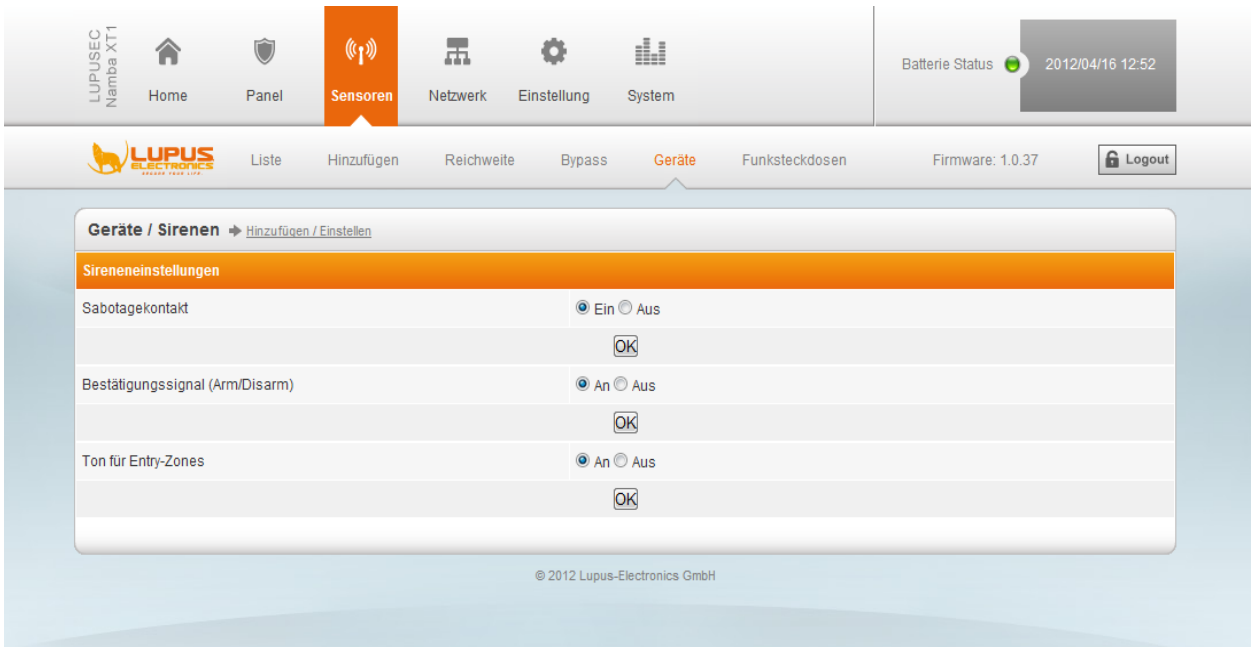
Bypass



In the “Bypass” menu, you can deactivate the sensors **only for the next arming** of the alarm system. They are then not able anymore to trigger an alarm, irrespective of the LUPUSEC-XT1 mode. Sensors, which cannot trigger an alarm, e.g. sirens, do therefore not react to the bypass function.

The table shows all sensor types, zone numbers, and sensor names and whether a bypass of the sensor is already active. To deactivate a sensor **once**, click “Bypass” in the line of the respective sensor in the last column.

Devices



Devices / sirens

In the “Sensors” → “Devices” menu, you can configure all external sirens or add additional devices to the LUPUSEC-XT1. These include wireless repeaters and wireless relays. To learn the devices, click „Add / configure“.

Activate the learn mode of the respective device. Refer to the Wireless repeater or wireless relay menu for the functional description. The control unit confirms that the device is recognized with a short signal tone. You can learn up to six devices to the XT1.

Siren settings

- **Tamper contact**
  Deactivates the tamper contact of all currently connected “external” (in addition to the control unit) sirens **for one hour** (useful e.g. to change the batteries).
  To deactivate the tamper contact of the siren(s), please proceed as follows:
  - Click “Tamper contact off”
  - Then click “OK” below

***Note*:**
If the tamper contact is disabled, the siren does not transmit status updates to the control unit anymore for as long as it is disabled. For that time, you can also not see the current state of the tamper contact via Sensors → List.

Caution!
If you open the siren without deactivating the tamper contact before, the audio alarm of the siren will be activated even if the siren is not integrated in the control unit anymore! In that case, you should wear ear protection and disconnect the power supply as quickly as possible.

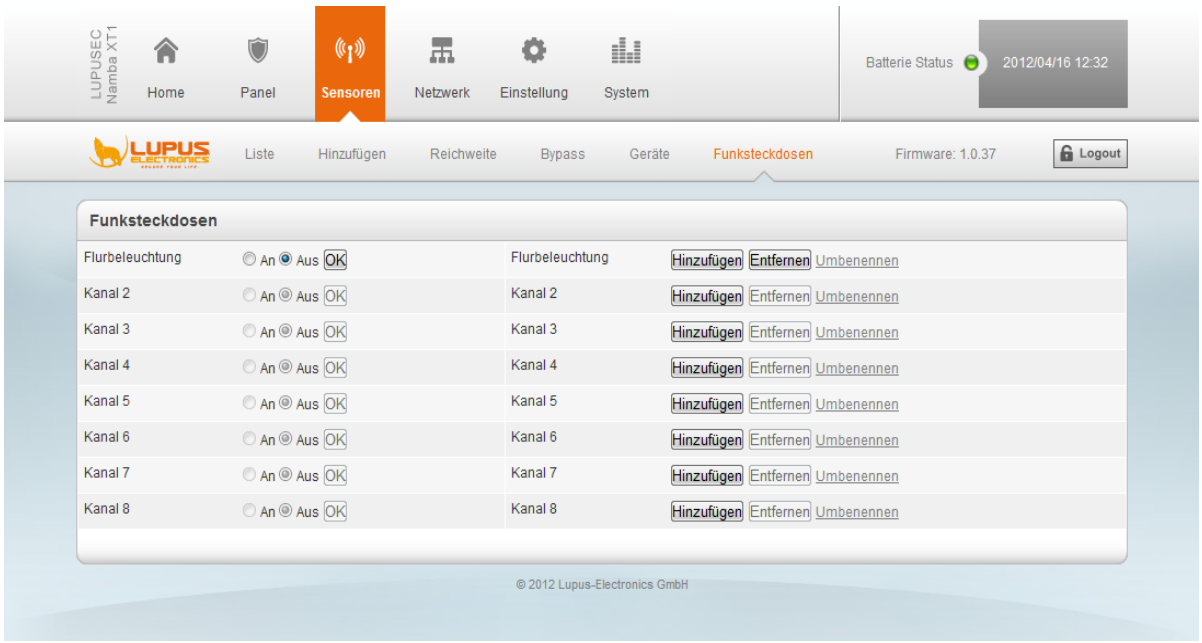
- **Confirmation signal on/off (in Arm/Disarm)**
  With this function active, the siren will sound one signal tone when arming and two signal tones when disarming.
  To disable the confirmation signal of the siren(s) upon arming/disarming, proceed as follows:
  - Click “Confirmation signal off”.
  - Then click on “Apply to siren” below.

Note:
If the tamper contact of the siren is open when arming the system, five short acoustic signals sound even though the confirmation signal is disabled.

- **Entrance signal on/off**
  With this function active, the siren will sound confirmation signals for the duration of the defined delay until the system is armed.
  To disable the warning signal of the siren(s) upon entry/exit, proceed as follows:
  - Click “Entrance signal” → “Off”
  - Then click “OK” below

Note:
- These three settings are transmitted only and not permanently stored in this menu. After they were transmitted, all three settings are ON again - but they were stored in the sirens, after they transmitted the confirmation signal.
- In addition, please note that the configuration is transmitted to all currently connected and active external sirens. If you want to **configure several sirens differently**, you should add these sirens later or just disconnect these sirens from the power supply temporarily. It is impossible to read out the current siren configuration.

Wireless sockets (PSS)



Wireless sockets can be manually switched on and off via the web interface or automatically via the Automation menu of the control unit (as of firmware 1.0.45). For this purpose, you need to learn them. For further details, please refer to the product description of the wireless sockets.

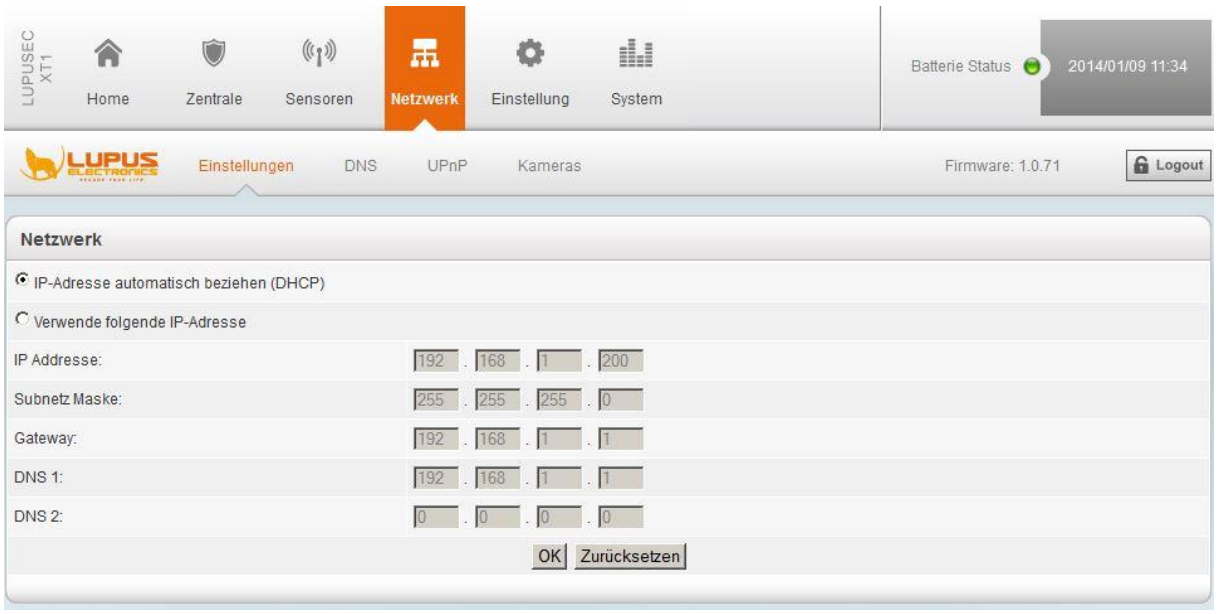
Activate or deactivate a wireless socket with the OK button. Use the button “Add” to integrate a new wireless socket (without electric meter) and “Delete” to remove it.

You can rename the wireless sockets via the “Rename” link.

Network menu

The Network menu comprises the sub-menus Settings, DNS, UPnP, and Cameras.

Settings

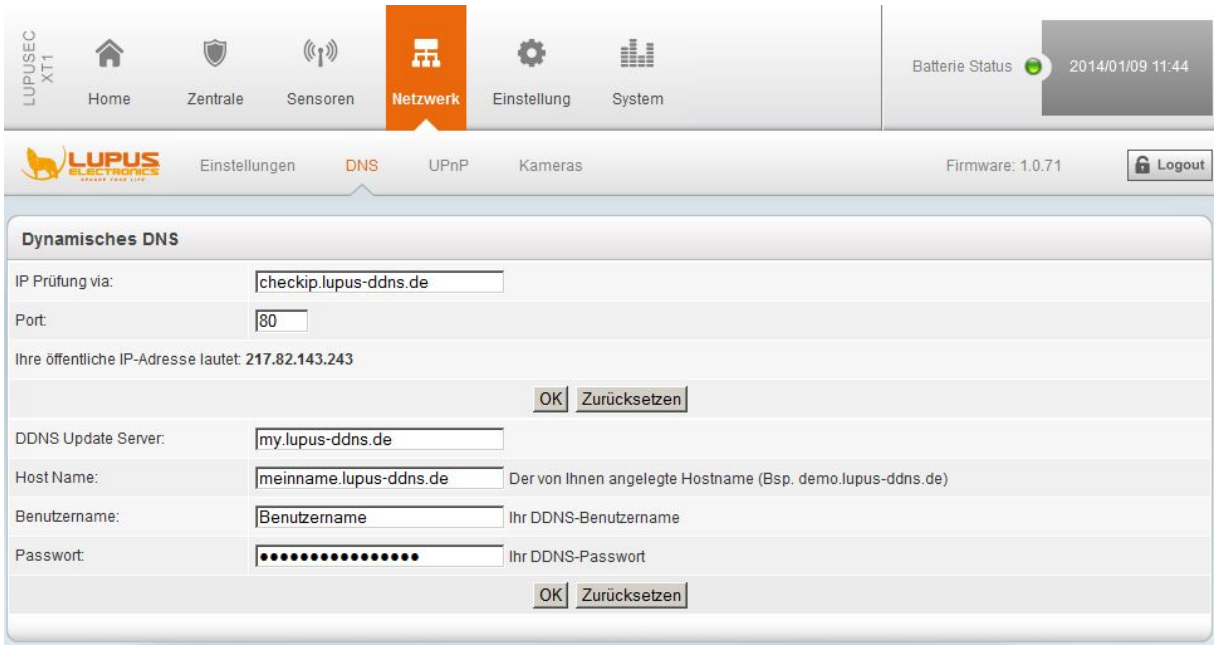


In the Settings menu, you can define the IP address of the LUPUSEC-XT1. We recommend the default setting “Receive IP address automatically (DCHP)”, if your network includes a router. Thus, the router provides the alarm system automatically with a matching address.

As an alternative, you can define the network settings manually. For this purpose, click on “Use following IP address”.

DNS

In the DNS menu, you can assign a host name to your public IP. Since your provider (e.g. Telekom) assigns a new IP address to your router every 24 hours, you need a DDNS host name that is linked to your current IP address. LUPUS offers its own free DNS service. Just use your personal login to the LUPUS-Electronics website in “My Account”. Refer to the end of this manual for more detailed information on the service.



Dynamic DNS

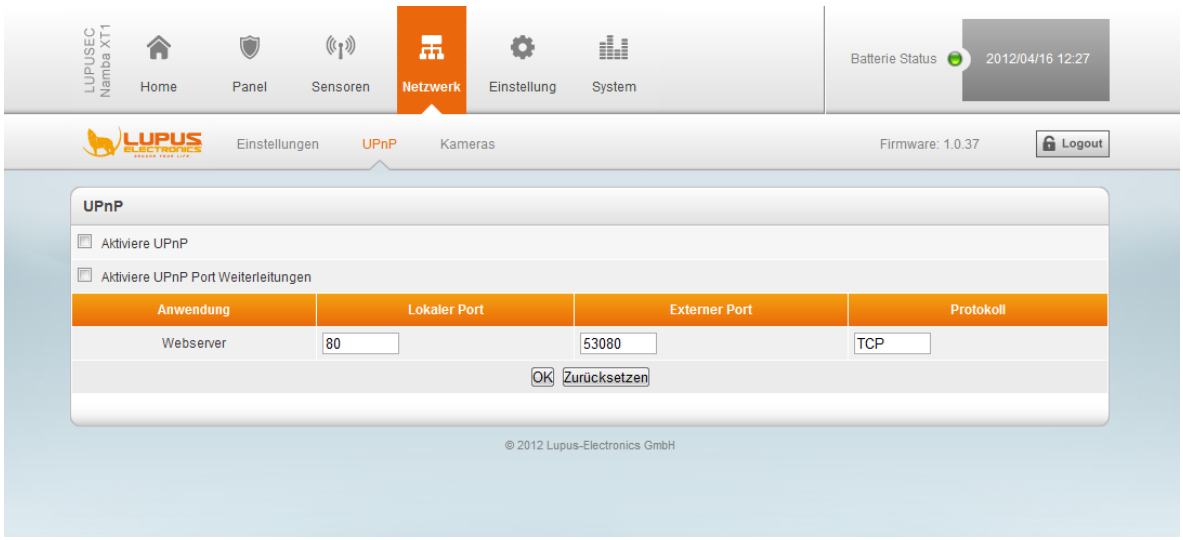
- **IP check via:** checkip.lupus-ddns.de (default cannot be changed)
- **Port:** 80 (default cannot be changed)

You need to enter the following information, if you use a LUPUS DDNS account:

- **DDNS update server:** my.lupus-ddns.de (default)
- **Host name:** Enter the host name specified at http://my.lupus-ddns.de/. (For a more exact description, please refer to chapter “Remote access via the internet”).
- **User name:** Enter the login name for the DDNS website.
- **Password:** Enter the related password.

Apply the settings with OK, reject the changes with Reset.

UPnP

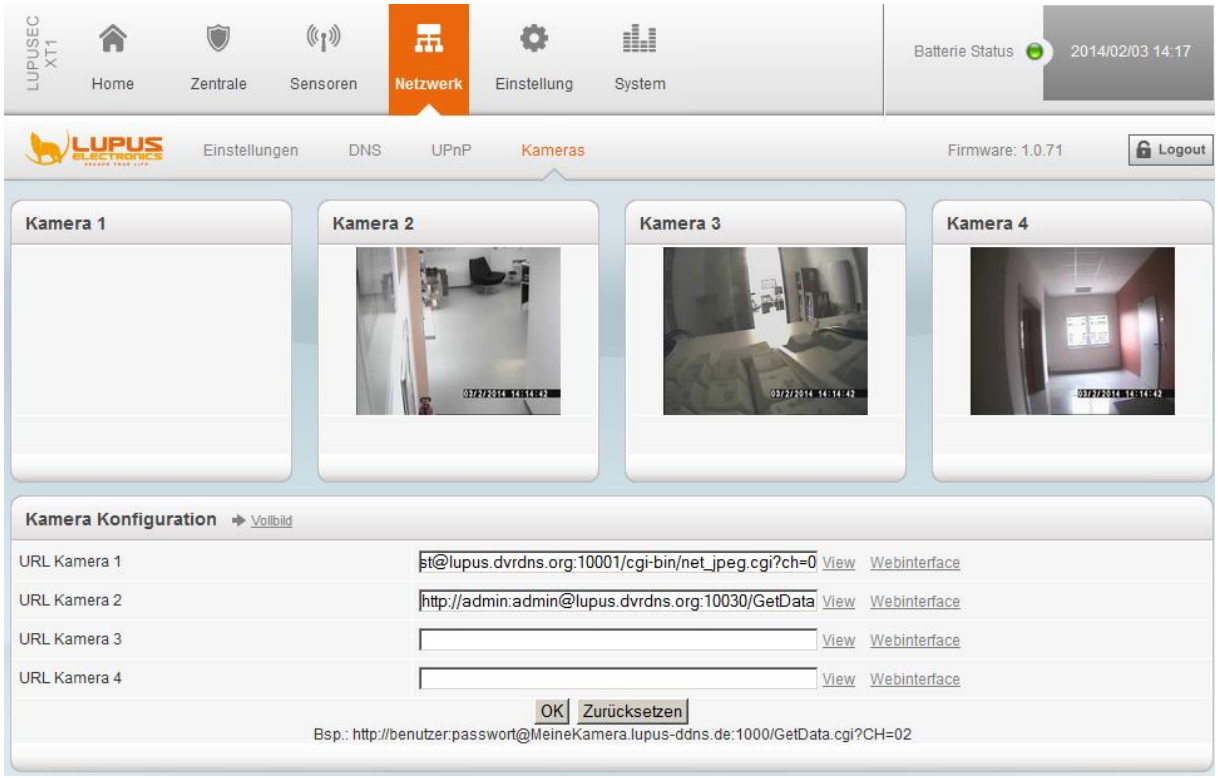


Enable UPnP: The UPnP function enables the LUPUSEC-XT1 to be visible and accessible in the local network (Windows 7 or higher), without the necessity to enter the IP address. The network environment shows the system directly.

Enable UPnP Port forwarding: If you enable the port forwarding function and your network router supports UPnP forwarding, the alarm system can directly set up the port forwarding in your router. That means you can access the XT1 via the external port of your router via the internet without configuring the router.

Note:
As an alternative to UPnP method, you can setup standard port forwarding in your router instead. A router configuration is difficult for laypeople, the chapter "Remote access via the internet" or the manual of your router contain some suggestions.

Cameras



In the Cameras menu, you can integrate all LUPUSNET HD IP cameras as well as the LUPUSTEC-LE800+ and LE800 D1 series into the LUPUSEC-XT1. You can add a maximum of four cameras. In theory, you can show pictures from any camera/recorder, if the device has an MJPEG path, which you need to enter. Please refer to the product manual in this regard or contact the product manufacturer.

- To add a **LUPUSNET HD IP camera**, enter a link according to the following syntax in one of the „URL camera“ boxes:
  http://Username:Password@Camera-IP-ADDRESS:PORT/GetData.cgi?CH=Streamnumber

  Example of a camera integration:
  User name: admin
  Password: admin
  IP address: test.lupus-ddns.de
  Port: 10030
  Stream 2: ?CH=2

  In the example, the link needs to look as follows:
  http://admin:admin@test.lupus-ddns.de:10030/GetData.cgi?CH=2

The command “/GetData.cgi” shows the camera’s JPEG stream, which transmits at up to 25 frames/second. If the data volume is too big for your local network, you can downsize the stream to a refreshment rate of one picture every three seconds. For this purpose, use the following extension: “/GetImage.cgi?Size=640x480”

- In our example, the link would look as follows:

http://admin:admin@test.lupus-ddns.de:10030/GetImage.cgi?Size=640x480
Use the following syntax to add the image of a **LUPUSTEC recorder** (LE800 Plus or D1 series):
http://Username:Password@DVR-ADDRESS:PORT/cgi-bin/net_jpeg.cgi?ch=Videochannelno.

Example of a video recorder integration:
User name: test
Password: test
DVR address: test.lupus-ddns.de
Port: 10001
Camera image/channel 1: /cgi-bin/net_jpeg.cgi?ch=0

Note:
To integrate an analog DVR, always subtract 1 from the required. Channel 4 corresponds to ch=3, channel 1 ch=0.

In our example, the link then looks as follows:
http://test:test@test.lupus-ddns.de:10001/cgi-bin/net_jpeg.cgi?ch=0

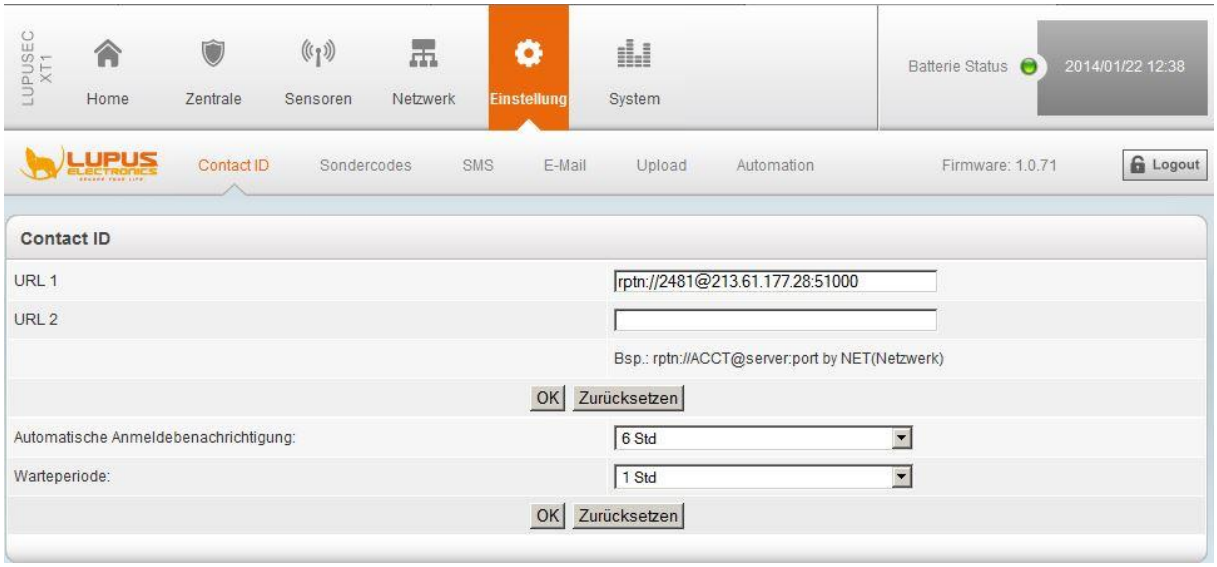
Note:
- Do not use Microsoft Internet Explorer, because it causes problems with the camera image display.
- If you have any difficulties to implement your cameras, please do not hesitate to contact our support hotline by calling 0049-6341-93 55 30!
- The PIR network camera is not integrated via the Cameras menu, but as a sensor.

Settings menu

Comprises the sub-menus Contact ID, Control unit, Special codes, Text message report, E-mail, Upload, and Automation.

Contact ID

To use the “Contact ID” menu, you must make use of a third party alarm center. The alarm center will be connected via Contact ID to the LUPUSEC-XT1, informed about any important status changes, and can react immediately.



The “Contact ID” menu provides altogether two boxes (URL1 + URL2), in which you can enter the address of the alarm center/control center. The LUPUSEC-XT1 for this uses the customary “Contact ID over IP” protocol.
If your control center does not support this or requires modifications, please contact our support service.

Create the contact ID address to be used according to the following pattern:
rptn://ACCT@server:port

ACCT: ID or customer ID, with which the alarm system is registered at the alarm center.
Server: The IP address of the alarm center server
Port: The assigned port of the alarm center server

Example: rptn://123456@94.214.112.83:2280

Thus, each status change of the LUPUSEC-XT1 can be reported to the alarm center.

- **Automatic login notification:**
  Specify an interval for regular status reports to the alarm center. If such a

report is missing, the alarm center knows that manipulation or failure is available and can react accordingly.

- **Waiting period:**
  The waiting period is the time between the start of the control unit and the first “Automatic login notification”. The control unit will then send regular reports as specified.

Contact ID Syntax

The “Contact ID” protocol serves to identify status changes and alarm messages of your LUPUSEC-XT1 alarm system. Each status change can thus be reported by text message, e-mail, or TCP/IP to the alarm center. The alarm center needs a suitable software supporting “Contact ID over IP”. If your control center does not provide this support, we are glad to help you with the integration.

Example of Contact ID syntax:

The account 1234 reports a perimeter alarm in zone 15 of area 1 (only one area available in the XT1):
<1234 18 1131 01 015 8>

1234 = Account at the alarm center
18 = Identification of a message via contact ID
1**131** = The first number (here 1) stands for „New event“, followed by **event code 131** standing for a perimeter alarm.
01 = Area number
015 = Zone number
8 = Check sum

The event codes are sorted in five groups:

Group 100: Alarms
Medical
Fire
Panic
Burglary
24 hours

Group 200: Surveillance
Fire
CO
Water
Valves
Pumps

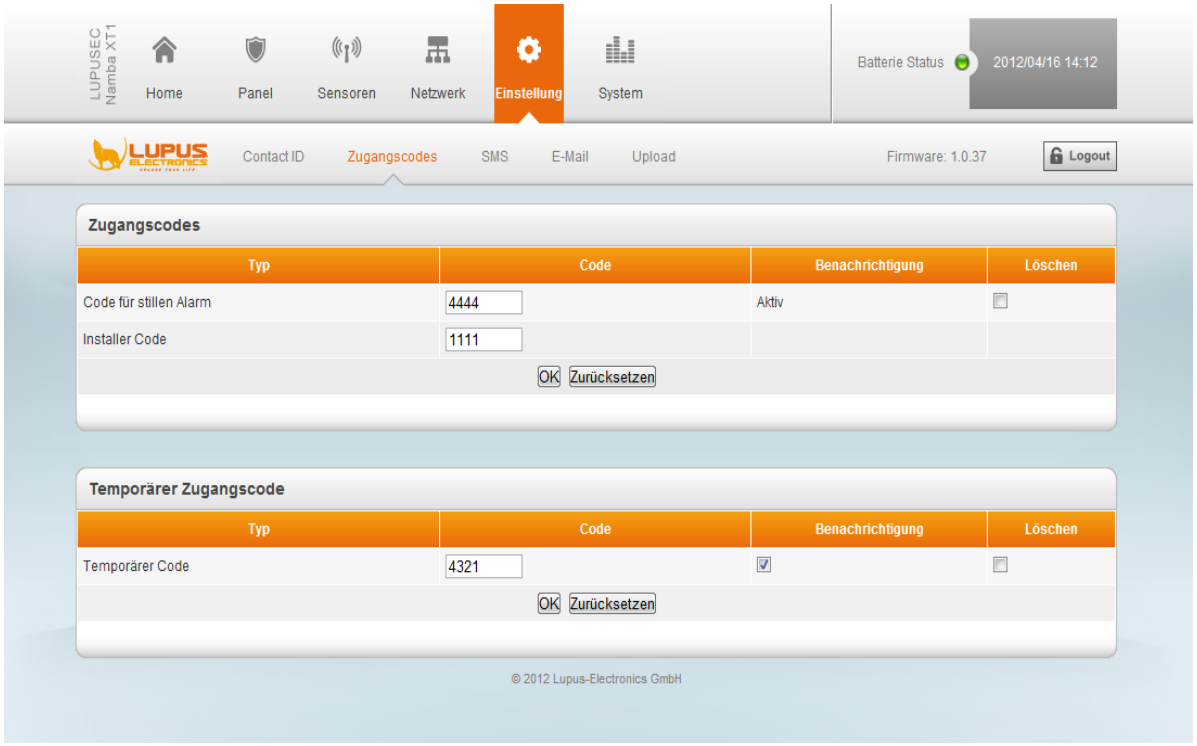
Group 300: Failures
System
Relay
System perimeter

Communication
Sensors

Group 400: Open / Close / Remote
Open / Close
Remote access
Access control

Group 500: Bypass / Deactivations
System
Relay
System perimeter
Communication

Special codes



Use the “Special codes” menu of the LUPUSEC-XT1 to enter the “Silent alarm code” and the “Installer code” as well as the “Temporary code” via the keypad.

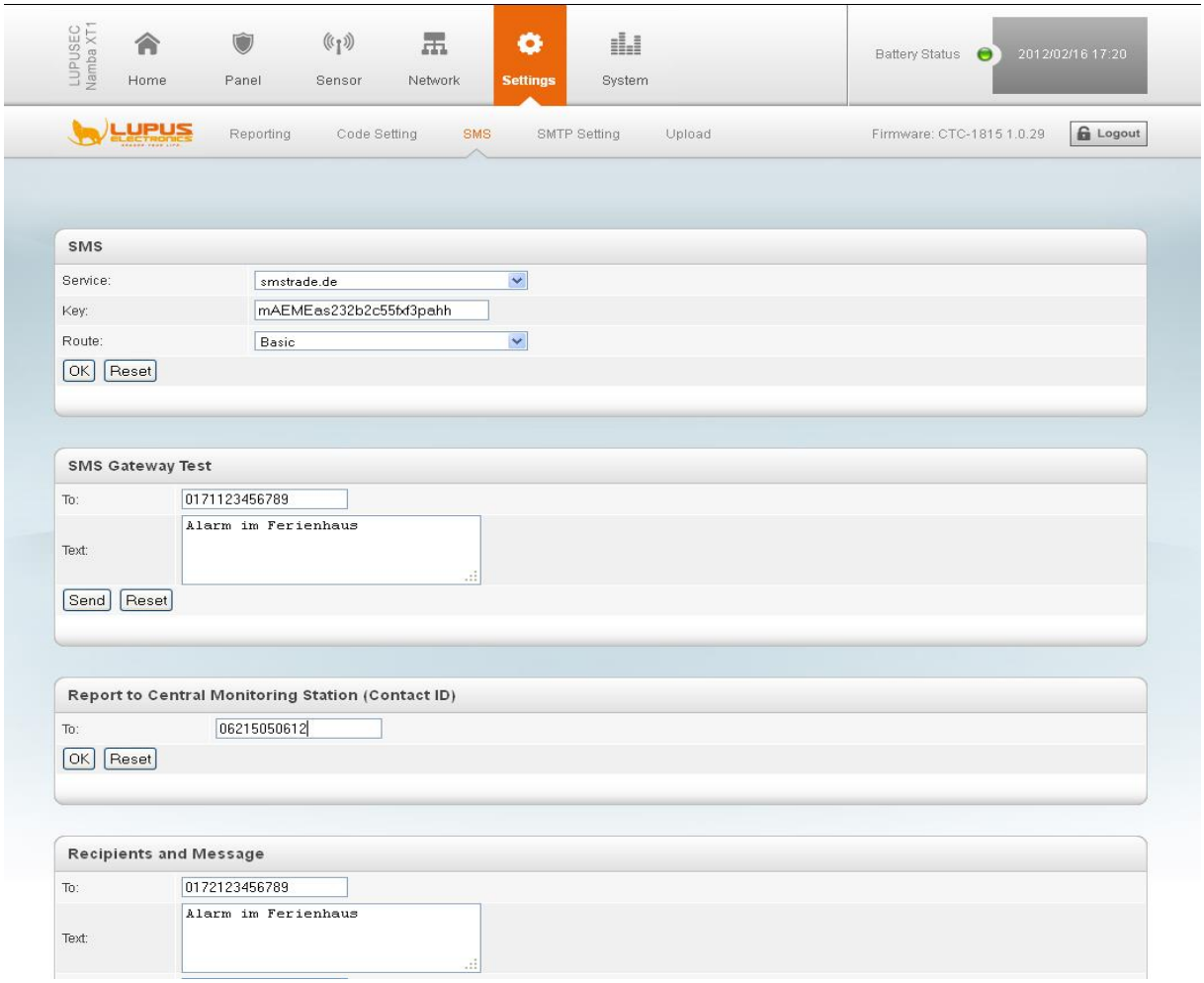
Silent alarm code: If you are forced to enter the code, you can enter the silent alarm code instead of the standard PIN code. This will stop the audio alarm – if active – and still transmit alarm messages through all channels. That means: all alert methods (e-mail, text message, or contact ID) remain or are active.

Installer code: Is intended for the system installer. If you enter the code, the alarm system is disarmed in the usual way, but the use of this code is reported.

Temporary code: This code is valid only once and disarms the alarm system. Tick the “Notification” option, if you want to be notified in case the code is used.

Text message report

In case of an active alarm, the LUPUSEC-XT1 is able to send a text message to an alarm center firm or to any private mobile phone.



Test message settings:

Enter the login data for your third-party provider. Currently the XT1 supports only “smstrade.de”. Further providers will be supported in the future.

IMPORTANT LEGAL NOTICE:

Smstrade is a third-party provider. There are no legal or business relations between LUPUS-Electronics and smstrade. LUPUS-Electronics does not assume any liability for the contents of the third-party website. LUPUS-Electronics does not check, control, or monitor the contents and services provided on the website, including the prices. LUPUS-Electronics does not assume any guarantee, warranty, or liability with regard to the services provided by third parties and their proper use in connection with the LUPUSEC-XT1 as well as with regard to content, correctness, or legitimacy of the goods, services, and material provided by the third party and the third party website. The text message offers shown above are valid only at the time this manual was printed are may possibly not be up-to-date. The access to third party websites is made at your own risk. The use of third party websites and third party services is subject to the applicable terms and conditions of the respective third party provider, including the applicable privacy policies. You may use any other test message provider together with the LUPUSEC-XT1 at your own risk.

Please note that the time between sending and receiving a text message notification is subject to external technical conditions such as e.g. the mobile network utilization and may therefore vary greatly.

- **Service:**
- Enter the login data for your third-party provider. Currently the XT1 supports only “smstrade.de”. Further providers will be supported in the future.

***Note*:**
To use the text message service, you need to set up an account free of charge on the website of www.smstrade.de.

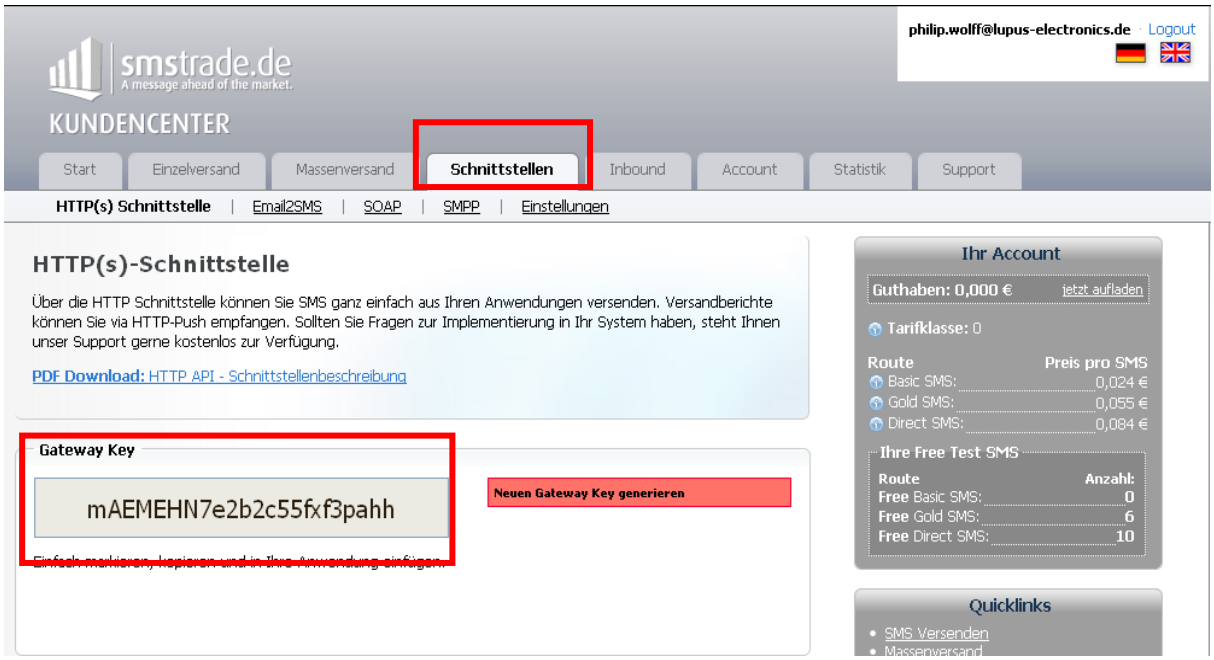
- **Key:**
  Enter the key you assigned to you by smstrade.de (further explanations on the next pages).

- **Route:**
  Use only smstrade route “Gold” service, as the sender number does not change with “Gold”.

To use the text message service (via the internet), you need an account on the website of www.smstrade.de. The registration is free, but every sent text message is charged.

After you created your account, unlocked it via the confirmation e-mail and logged in, go to the top of the customer area and click “**Interfaces**”.

The following image including the important “Gateway Key” will be displayed:



Copy this Gateway Key into the field "**Key**" of the LUPUSEC-XT1:

The following is a table listing the most common response codes of Smstrade:

Response	Description	Troubleshooting
10	Recipient number incorrect	Use correct format, e.g. 491701231231
20	Sender ID incorrect	Use a sender with a maximum of maximal 11 alphanumerical or 16 numerical characters
30	Text message incorrect	Use a maximum of 160 characters of text or parameter concat=1
31	Message type incorrect	Delete message type or use one of the following values: flash, unicode, binary, voice.
40	Text route incorrect	Available routes: basic, gold, direct
50	Identification failed	Check Gateway Key
60	Insufficient credit	Charge credit
70	Network not covered	Choose different route
71	Feature impossible	Choose different route
80	Delivery to SMS-C failed	Choose different route or contact support
100	Text received and sent	

Text message gateway test

- **Recipient**
  Enter the mobile number to which you want to send a test text message.

- **Text:**
  Enter the text of the test message.

Report to alarm center (contact ID)

Recipient:
Enter the mobile or telephone number of the alarm center, which is then informed about every status message via Contact ID protocol. If the alarm center requires an ID, enter the ID in front of the mobile number, followed by @, e.g. 1234@01791234567 an.
Refer to the end of this manual for the syntax of the Contact ID protocol.
Example of text message content: < 18340100014>

Recipient and message

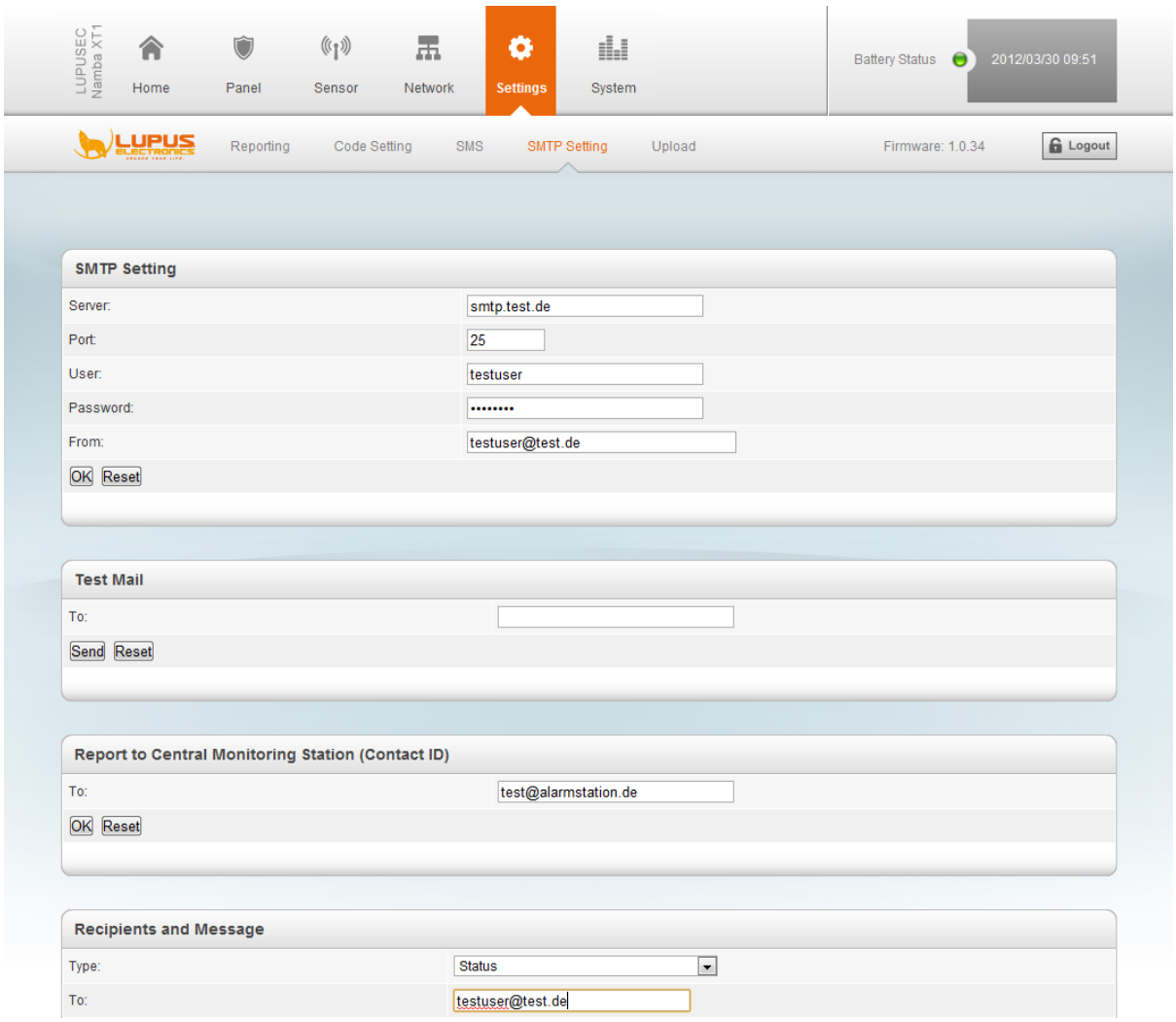
Send in case of:
- Alarm = Sends a text message only in case of an alarm
- Status changes = Additionally sends a text message in case of arming/disarming
- All events = Sends a text message whenever the status changes (not recommended)

Recipient:
Enter the mobile number to which you want to send a test text message. You can specify a maximum of two recipients.

Text:
Enter the text of the test message.

Note:
In most mobile phones like iPhone or Samsung Galaxy, you can set the ring tone for text messages, the volume as well as the number of repetitions of the alert sound to make sure that you do not miss any notification.

E-mail



The LUPUSEC-XT1 is able to send e-mails in case of alarms. You can have them sent to the alarm center and to your private e-mail addresses. Please observe that the time between sending and receiving a notification e-mail is subject to external technical conditions, e.g. network utilization or similar, and may vary greatly.

SMTP settings

- **Server**
  Enter the SMTP settings (e.g. smtp.emailservice.de) of the e-mail provider used. You can get them directly from your e-mail provider or by means of a search engine (Google, Yahoo, etc.)
- **Port**
  Enter the port of the SMTP server (standard port 25).
- **User**
  Enter your e-mail user name (e.g. testuser). Often, the complete e-mail address is required.
- **Password**
  Enter the password of your e-mail account.
- **Sender address**

Enter the complete sender e-mail address.

- **SSL**
  Some e-mail providers use Secure Sockets Layer (SSL). In that case, tick this option. Please note that the port used changes as well (usually to 465).

Test e-mail:
Use this function to verify the correctness of your account details. The e-mail address is not permanently stored. Send the e-mail by pressing “Send”.

Report to alarm center (Contact ID)
Enter the e-mail address of the alarm center, which is then informed about every status change or in case of burglary. Press “OK” to save the settings.
Refer to the end of this manual for the syntax of the Contact ID protocol.
Example of e-mail: <Info 18340100014>

Recipient and message
You can specify up to two e-mail recipients to be informed in case of certain events by e-mail and text.

- **Send in case of:**
  - Alarm = Sends e-mails in case of burglary alarm only.
  - Status changes = Sends e-mails in case of status changes.
  - All events = Sends e-mails for all events.

- **Recipient:**
  Enter the recipient’s e-mail address.

- **Text:**
  Optionally, enter an e-mail text to send with the e-mail.

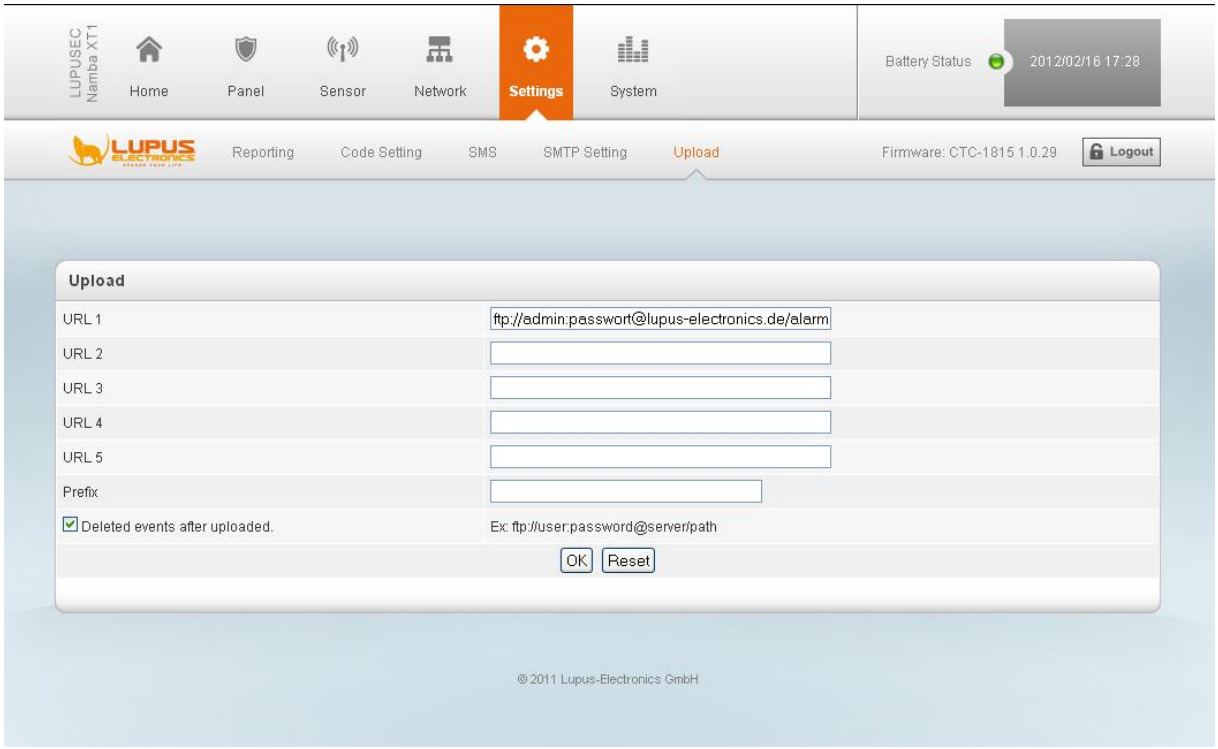
Example for a GMAIL account:

SMTP settings

Server:	smtp.gmail.com
SMTP port:	465
User name:	Your Gmail address
Password:	Your Gmail password
Sender:	Your Gmail address
SSL:	Tick

Note:
Not every e-mail provider is supported. We tested the following successfully in autumn 2014: T-Online, Gmail, Hosteurope, and Yahoo.

Upload



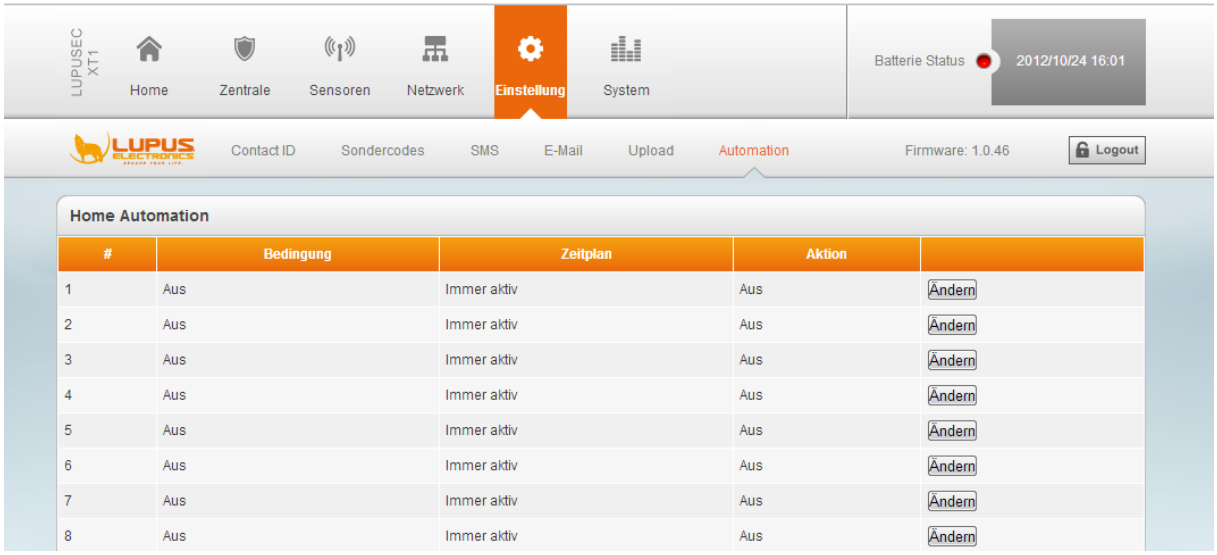
Use the Upload menu to send images recorded by the PIR network cameras directly by e-mail or to upload them to a FTP server. For this purpose, enter an e-mail address or the address of the FTP server.

Example:

- FTP: ftp://user:password@server/path
- E-mail: user@abc.com

Automation

In the Home automation menu, you can automatically arm or disarm the control unit among other things at certain times and conditions, control any consumer device (PSS) depending on status, alarm or temperature.



***Note*:**
After having established or changed an automation rule, save this setting by pressing **DONE** next to the automation rule and then **OK** on the bottom. If you do not want to save the setting, press **RESET** or leave the menu item.

Example 1:
A wireless socket or in-wall relay is to turn off electricity consumers, e.g. TV set, in order to avoid unnecessary standby power consumption, when you leave the house (the alarm system is armed).

Settings:

- Connect a (PSS) wireless socket (see sensor instructions) to the control unit (in our example, this is zone 2).
- Go to menu “Settings” → “Automation”
- Click EDIT in line 1
- Select CONDITION → CHANGE MODE → **ARM**.
- Go to SCHEDULE and select ALWAYS
- Go to ACTION and select SWITCH ZONE OFF → ZONE 1

From then on, whenever you leave the house and arm the alarm system, the XT1 will turn off the respective PSS wireless socket Zone 1, and you save energy. Similarly, you can configure the same rule for the HOME mode. To reactivate your TV, when you come home, you need to set up a second rule:

- In the Home Automation menu, click CHANGE in line 2
- Select CONDITION → CHANGE MODE → **DISARM**
- Go to SCHEDULE and select ALWAYS

- Go to ACTION and select SWITCH ZONE ON → ZONE 1

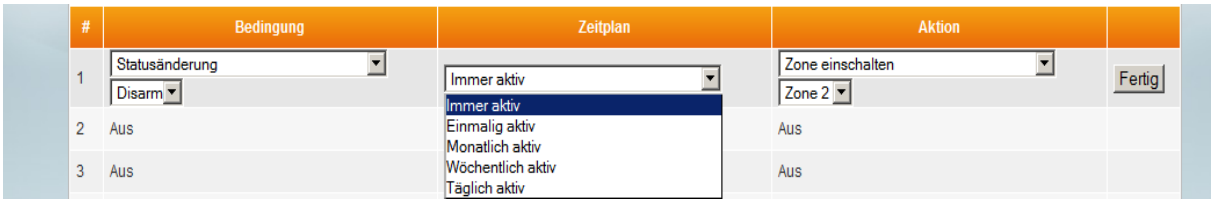
Example 2:
Switch on a light at a certain wireless socket at a certain time.

Settings:
- Connect a (PSS) wireless socket (see sensor instructions) to the control unit (in our example, this is zone 2)
- Go to menu “Settings” → “Automation”
- Click EDIT in the next blank line.
- Go to CONDITION and select **None**
- Go to SCHEDULE, select EVERY DAY and enter the **identical** start/end time (e.g. 16:00)
- Go to ACTION and select SWITCH ZONE ON → ZONE 2.

From then on, the XT1 will switch the lamp on every day at 4 p.m. To switch it off again automatically at 7 p.m., you need to define another rule:

- Click on EDIT in the next blank line
- Go to CONDITION and select **None**
- Go to SCHEDULE, select EVERY DAY and enter the **identical** start/end time (19:00)
- Go to ACTION and select SWITCH ZONE OFF → ZONE 2

Example 3:
Schedule configuration
There is a difference between a time or a period being selected as the **schedule** in the automation rule. Let us assume that the **condition** is Status change -> Disarm, we enter a time or period as the **schedule** and the **action** is to switch on a wireless socket (zone 2).



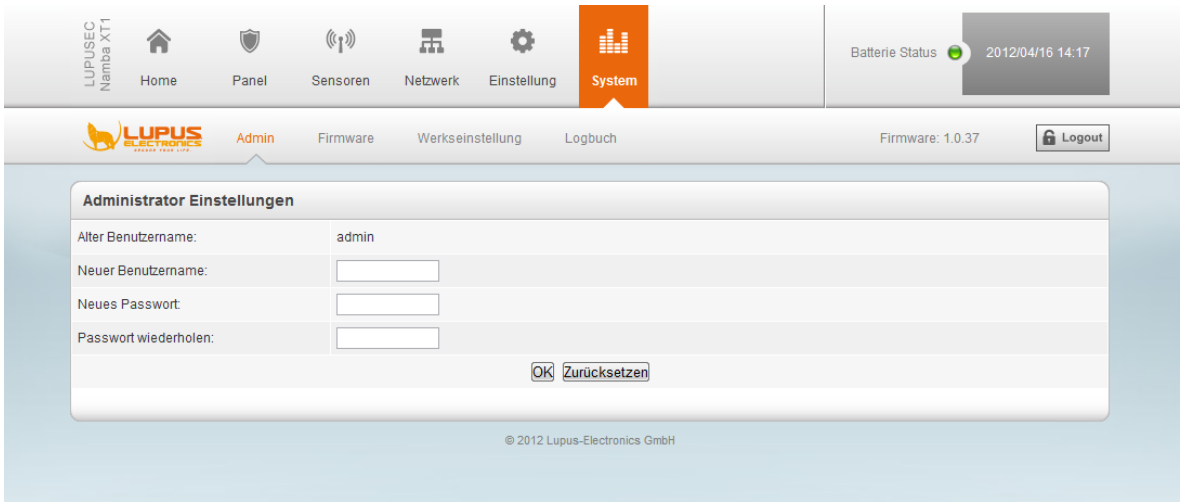
Time:
We enter a time, e.g. “once 2015/12/31 23:59”, in the automation rule as described above. If the condition is complied with (the system is disarmed) and the set time is reached, the system will execute the selected action (switch on wireless socket zone 2).

Period:
If we enter a period, e.g. “daily between 12:00 – 24:00”, in the automation rule as described above, then the action (switch on wireless socket zone 2) will be executed every day between 12:00 and 24:00, if the condition is complied with (the system is disarmed).

System menu

This menu contains the additional system settings like the Admin menu to set the web interface access, the Firmware menu to update the system, default settings, the log files.

Admin

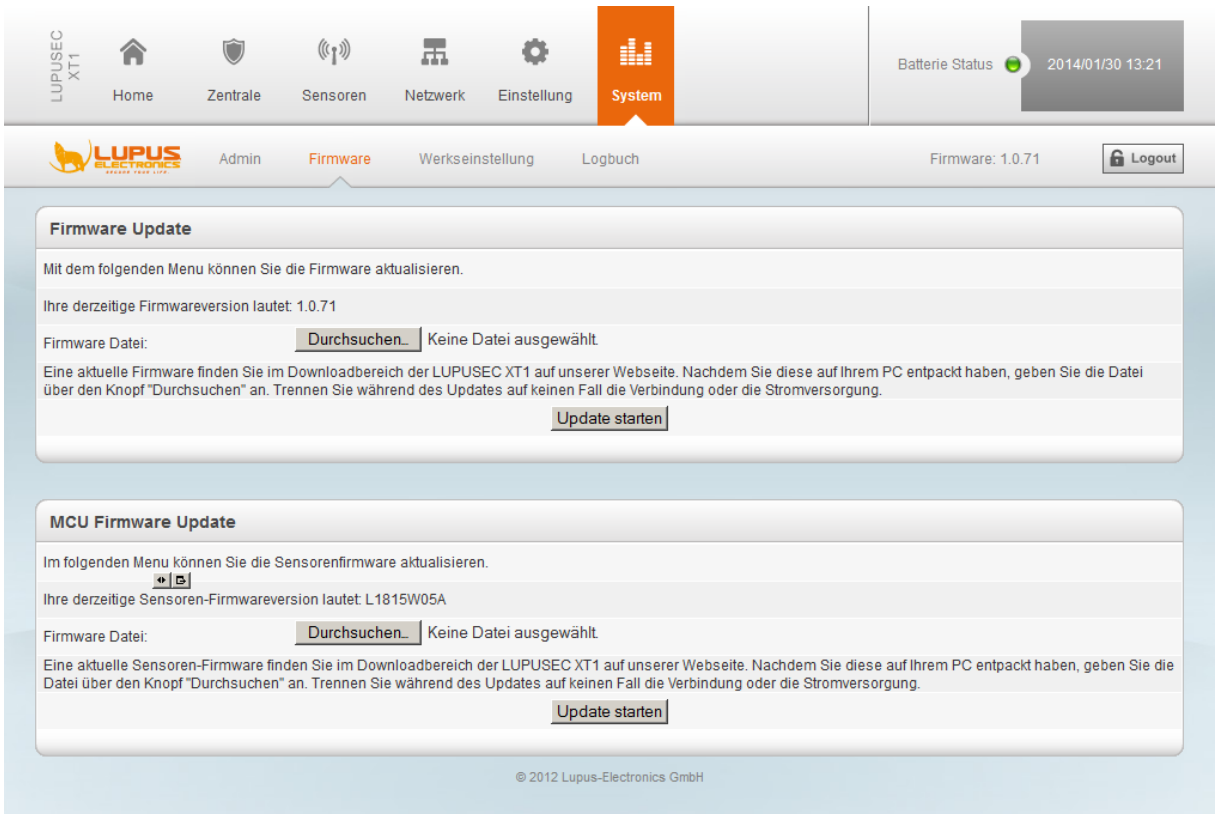


Use the Admin menu to change the system password. This is requested when you access the web interface. The default access parameters are:

User name: admin
Password: admin1234

Note:
User name and password (each) must consist of five characters minimum and must not exceed 16 characters.

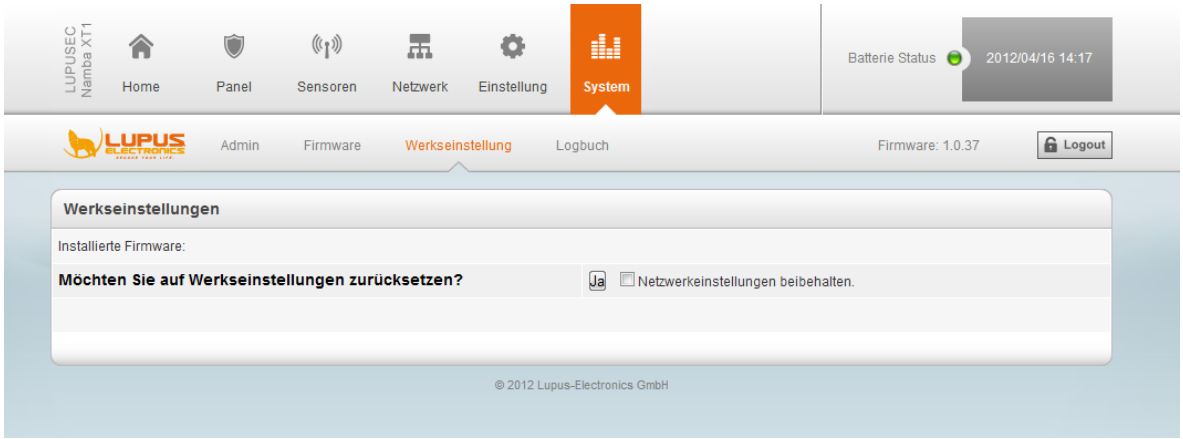
Firmware



Use the Firmware menu to update the system software and the sensor software (MCU). For this purpose, click on “Search” and then enter the firmware file for LUPUS XT1 alarm system and press “Start update”.

Caution:
Click on Apply ONLY ONCE! Observe the text “Caution! Read installation notes first!“ supplied with the firmware. Do not interrupt the connection during the update process. Do not execute updates via the internet! Wait until the process is completed (approx. 1 to 2 minutes), before you take any further PC action. Updates are always at your own risk.

Default settings

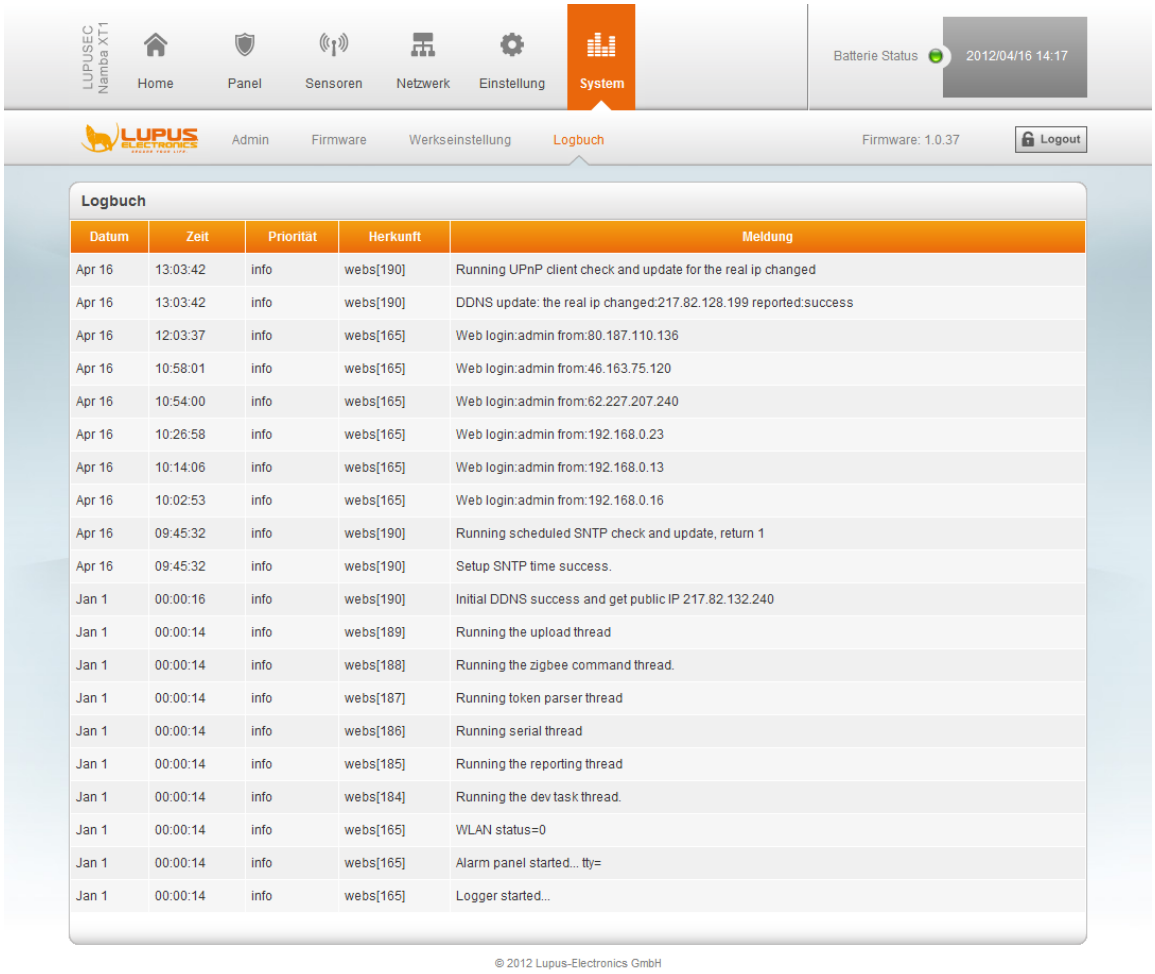


Use this menu to reset all settings to default. If you want to keep the network settings, tick the option “Keep network settings”.

Note:
A **full reset** including the deletion of all connected sensors is executed as follows: Disconnect the XT1 entirely from the power supply (remove power supply unit and deactivate the emergency battery on the back). Then hold the “Learn Button” on the back of the device pressed and reconnect the power supply unit of the control unit. All three status LEDs of the XT1 will flicker after about 10 to 15 seconds, then release the “Learn Button”. The control unit is completely reset.

Log files

The log files of the LUPUSEC-XT1 contain information about the system booting process as well as all network accesses and status reports of the network services.



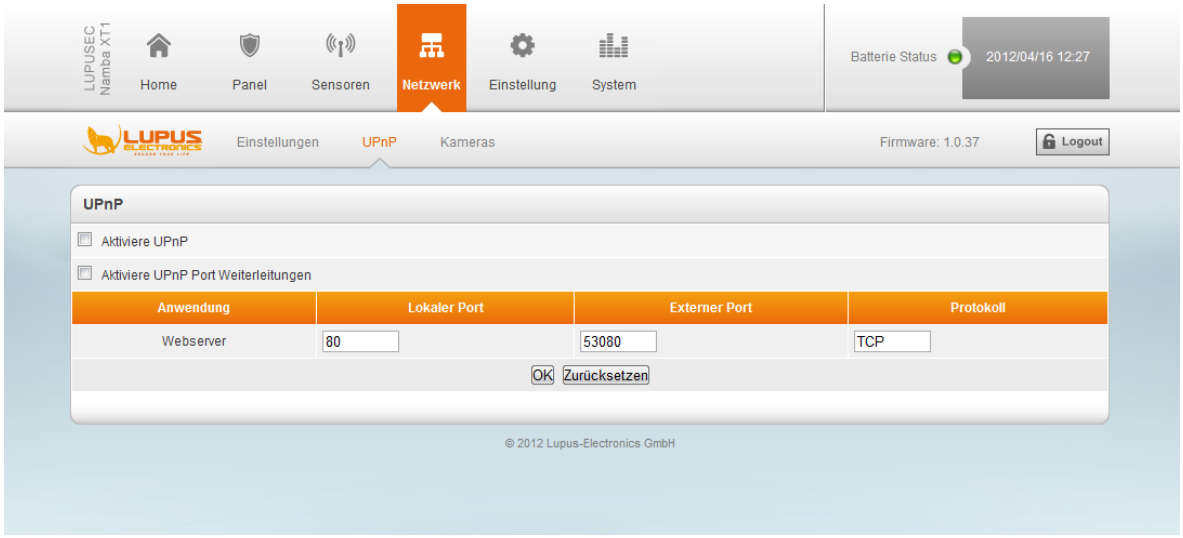
Remote access via the internet

The LUPUSEC-XT1 enables you to retrieve and control the status of the entire system via the internet or an iPhone/iPad or Android mobile phone. Even the pictures form your LUPUS cameras or recorders can be shown at a central interface.

To be able to access the XT1 via the internet, check the following item beforehand:

1. Is the alarm system connected to the router and do you have access from your local computer?
   If no, please proceed according to the chapter “Connect the control unit”.
2. Did you create a fixed address for the internet access in your account at our website www.lupus-electronics.de? Example: mueller.lupus-ddns.de
   - If no, please refer to the description of our DDNS service below. Alternatively, you can use any other provider such as www.dyndns.com and www.no-ip.de or let your internet provider assign you with a fixed IP address.
   - If yes, open the XT1 website and go to the menu “Network” → “DDNS”. Enter your DDNS data accordingly in the DDNS menu at the LUPUS website.

If your router is state-of-the-art and supports UPnP, you can activate the service in the “UPnP” menu of the XT1:



If your router does not support or has not activated UPnP, an error message is displayed.

Now you can access the system from the browser of your PC, laptop, or mobile phone as in the following example:

http://mueller.lupus-ddns.de:53080

If your does not support UPnP, open the configuration menu of the router:

In most of the cases, open the login page of your router by entering your standard gateway address (gateway to the internet) in the web browser.

You get this gateway IP address through Windows Clients by clicking on Start and

then entering “**CMD**” in the “Execute” or “Search” text box (alternatively Windows key + R). A panel opens, in which you enter “**ipconfig**“. The result is the overview of your network adapters, the associated IP addresses, and the standard gateway.

Search the configuration menu in the router, which is usually located in the network settings, to create a port forwarding (NAT). For a port forwarding, the (local) IP or the name of the security firm control center, the external port (in our example: 53080) and the internal port 80 (not editable) of the control unit room must be entered.

In case of a Fritz-Box, the menu is located at “Internet” → “Clearance”.

If you executed both entries – DDNS and port forwarding – correctly, you should now be able to access the XT1 from the outside (internet) using your DDNS address in a web browser.

A browser entry may look as follows:
http://mydyndnsname.homeip.de:externalportnumber
or: http://mueller.lupus-ddns.org:53080

Note:

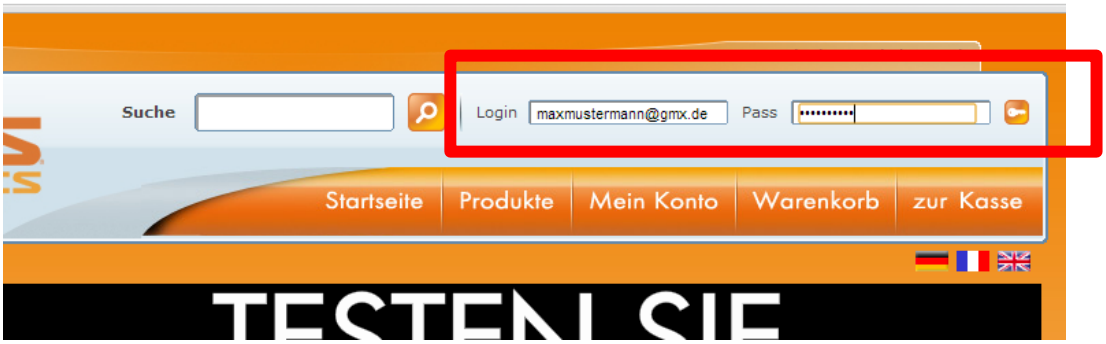
- To access the control unit via the internet, it is required that your ISP (Internet Service Provider) supplies you with a unique IP address. Access / port forwarding via cells / AP (UMTS / LTE etc.) may not be possible and should be clarified with the ISP beforehand.
- If you have any questions or problems, please do not hesitate to contact our support service at any time (+49 (0) 63 41 - 93 55 30).

Create Dynamic DNS account

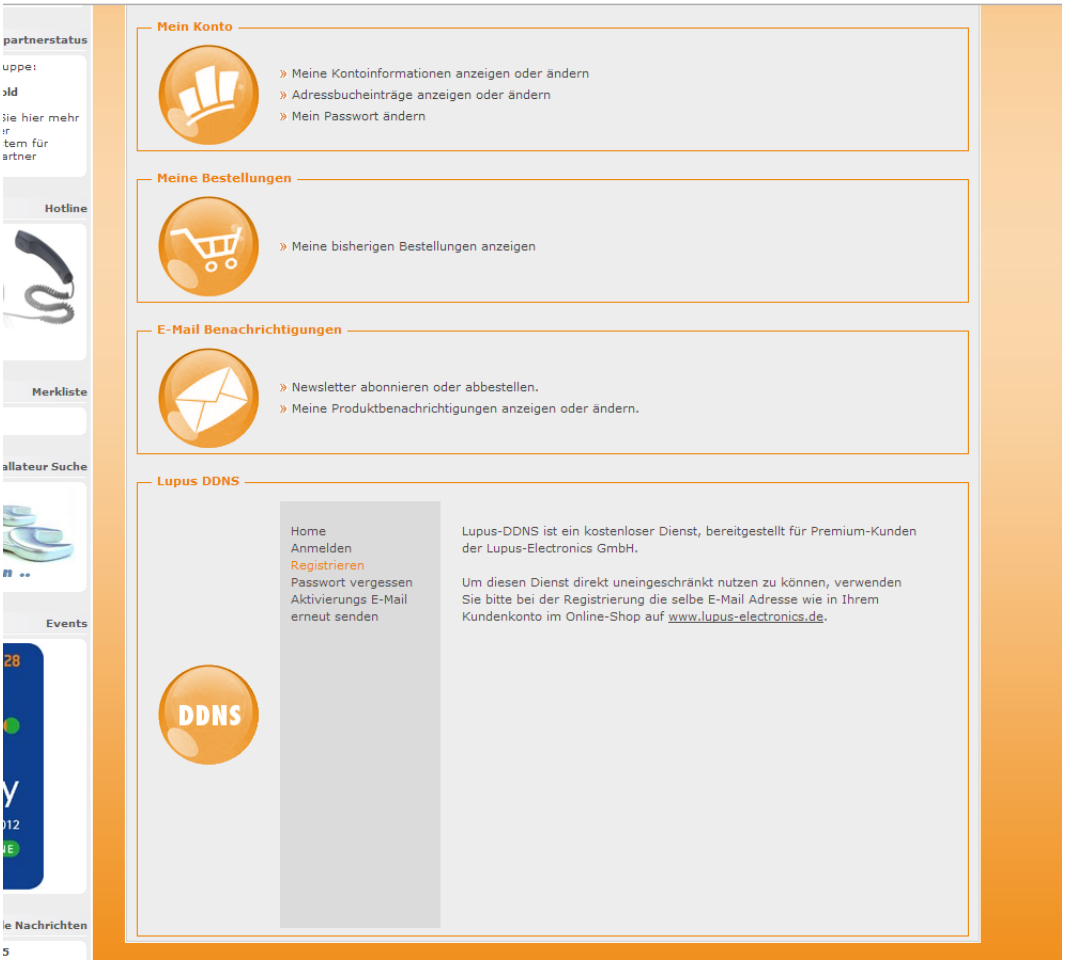
As of late, LUPUS-Electronics is pleased to offer its own Dynamic DNS service, which is required to access your alarm system, cameras, and recorders externally. To create a DDNS address for external access, please proceed as follows:

1. Open the LUPUS website: [http://www.lupus-electronics.de.](http://www.lupus-electronics.de)

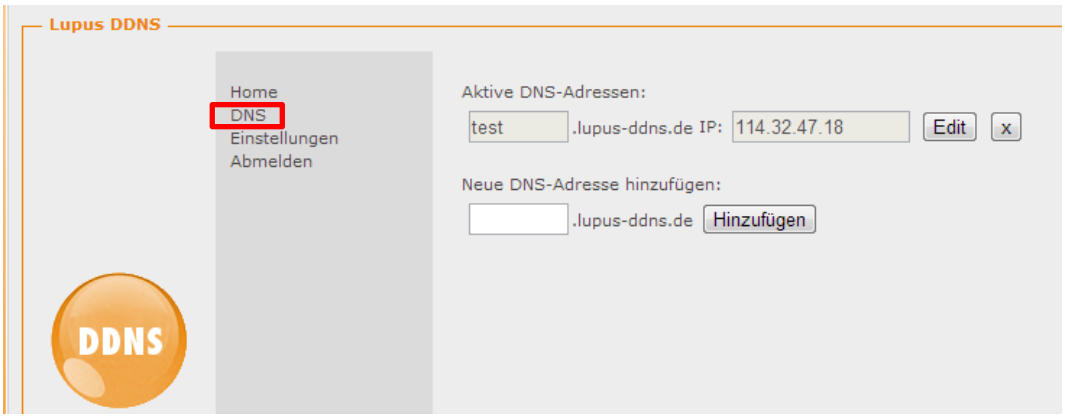
2. Log in to your e-mail account with your address and password. If you do not have an account with us yet, please create one by pressing the button “My account”.



3. Then click on “My account”.
4. Your account status contains the “Lupus DDNS” section further down:



5. Click on “Register” and **enter the same e-mail address that you used to log into your LUPUS account before**.
6. Activate your account by means of the link you received by e-mail.
7. Log in using your user name and password.
8. Click on “DNS” in the DDNS menu:



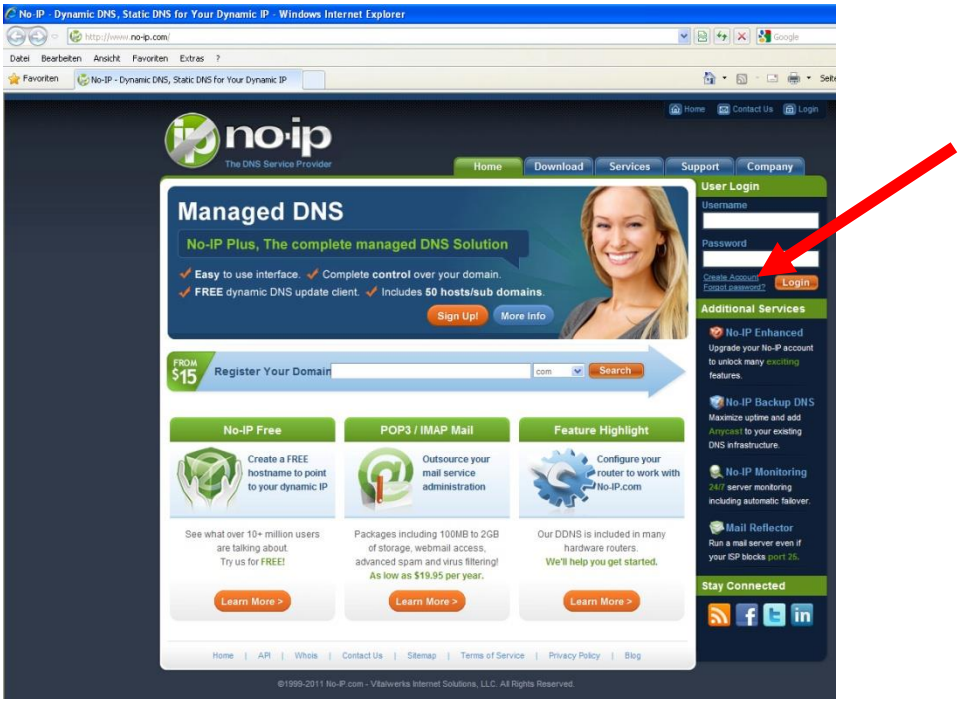
9. Enter a name in “Add new DNS address”, which you want to use to access your alarm system, IP camera, or recorder later via the internet. In our example, we entered “test”.

Your host name for remote access therefore is:
„test.lupus-ddns.de“
Enter this host name together with your DDNS user name and your DDNS password in the XT1 menu “Network” → “DNS“. Use “my.lupus-ddns.de” as the update server. Then tick both options in the “UPnP” menu.
Now you can access the alarm system from your browser via the internet via the following link: test.lupus-ddns.de:53080.

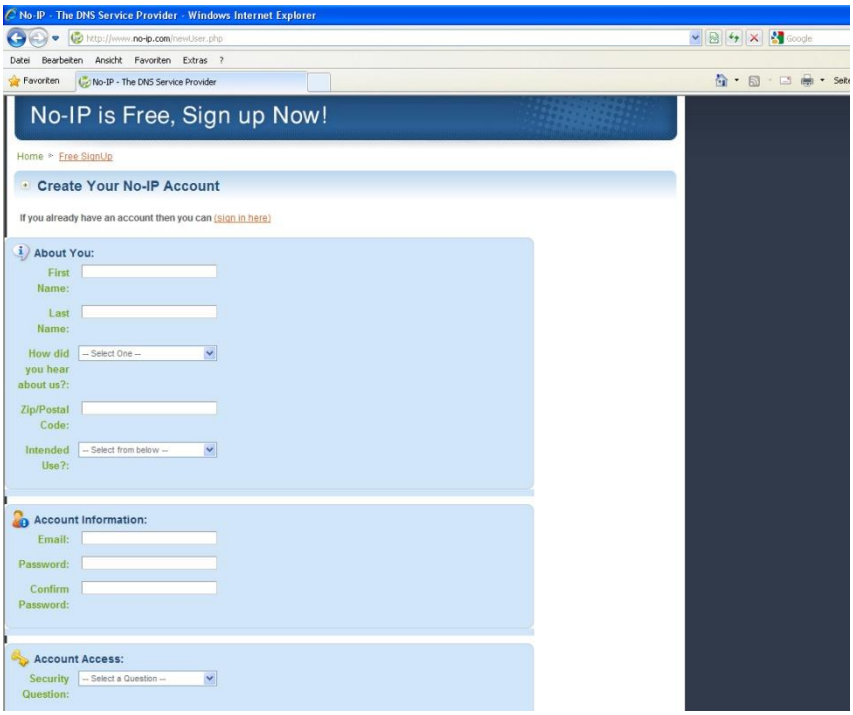
Alternatively, to our service, you can also choose a public provider such as www.no-ip.com or ask your internet provider for a fixed WAN IP address:

Open the website http://www.no-ip.com.

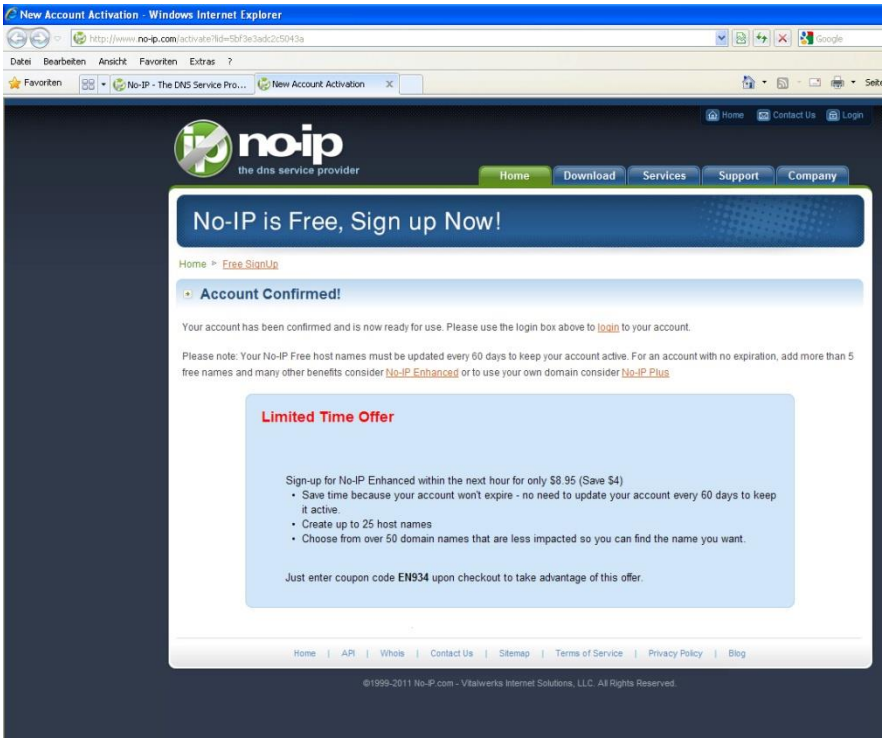
1. Click on “Create Account” to create a free account.



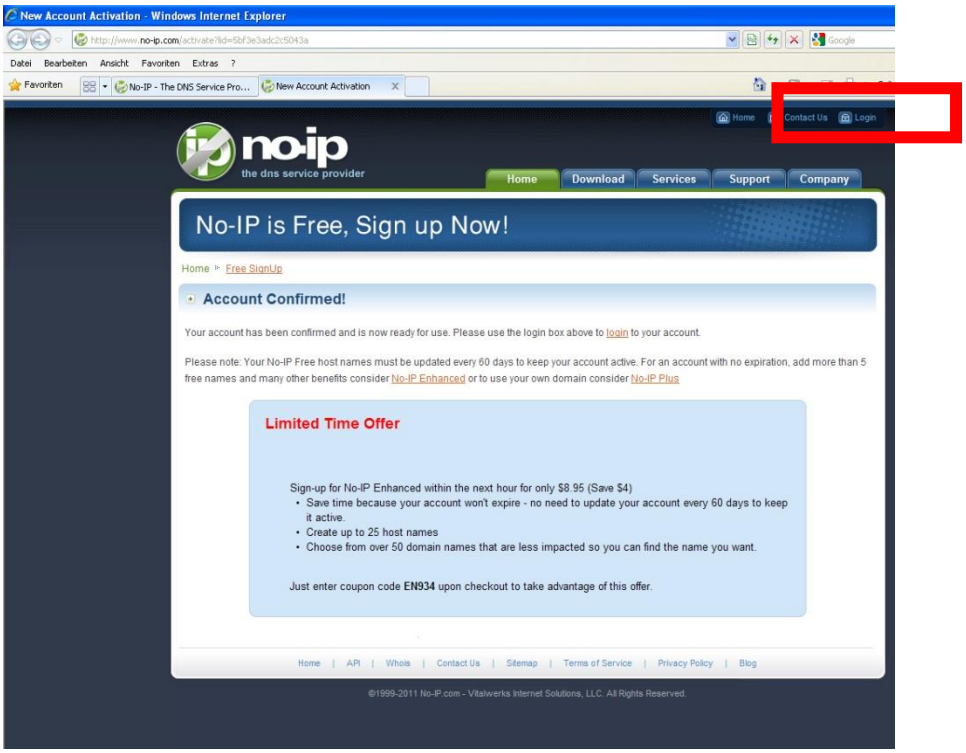
2. Complete the form.



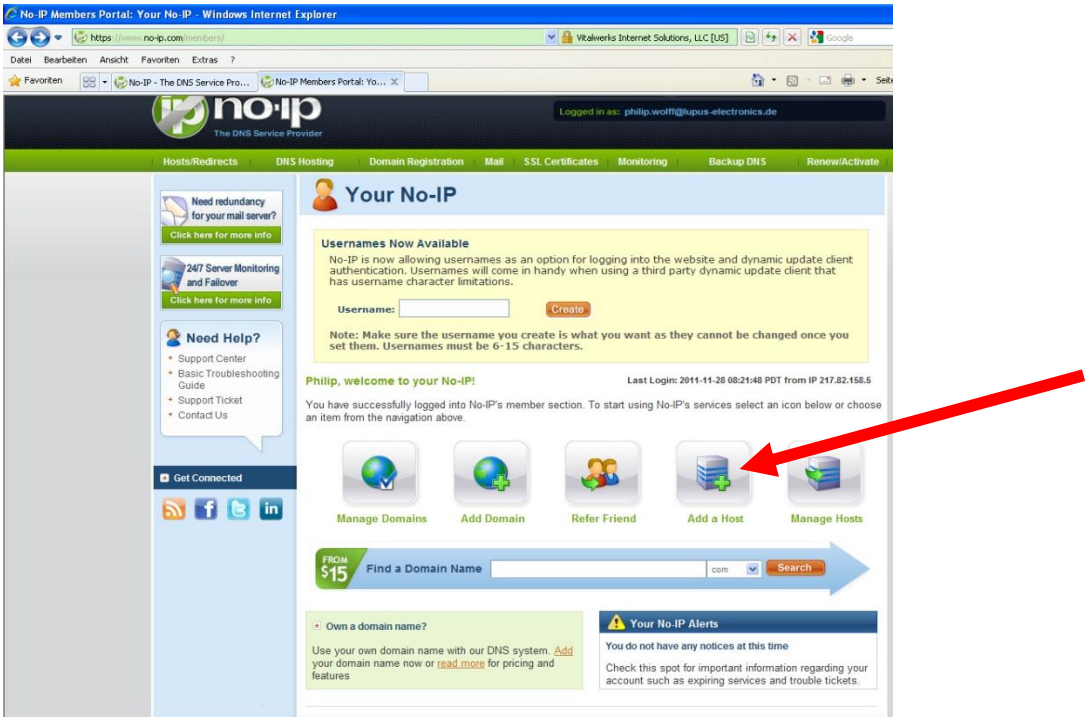
3. You will be sent an e-mail containing the confirmation link. After the confirmation, the following screen will be displayed:



4. Log in with your e-mail address and password.



5. Click on “Add a Host” and enter your “Hostname”. Then save with “Create Host“.

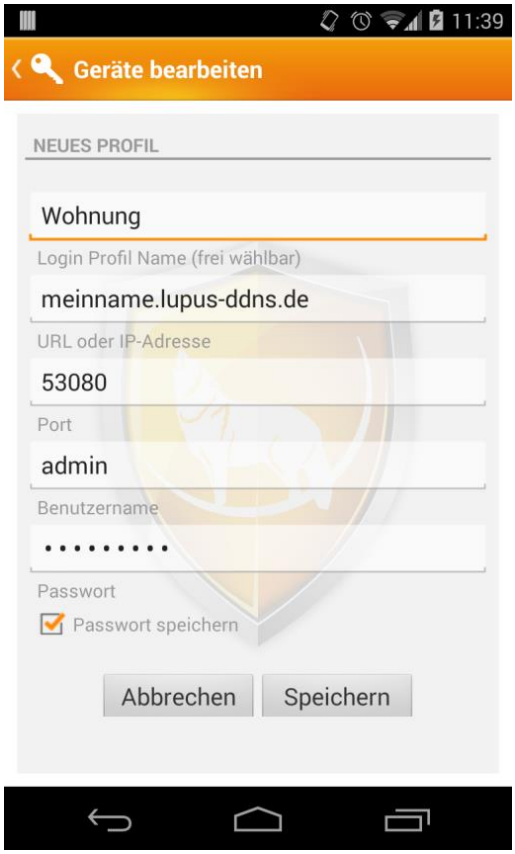


6. Enter the created user name/e-mail address, password, and your complete address (e.g. mydvr.zapto.org) in your router or recorder in DDNS.
7. The control unit should now be accessible externally via your address, e.g. http://mydvr.zapto.org.

Access via the LUPUSEC app (Android + iOS)

Download the free Android or iOS app from Google Play Store or the App Store (iPhone/iPad).

The following screen is shown when you first start the app:



Enter the following data in the boxes:

- **Login profile name**

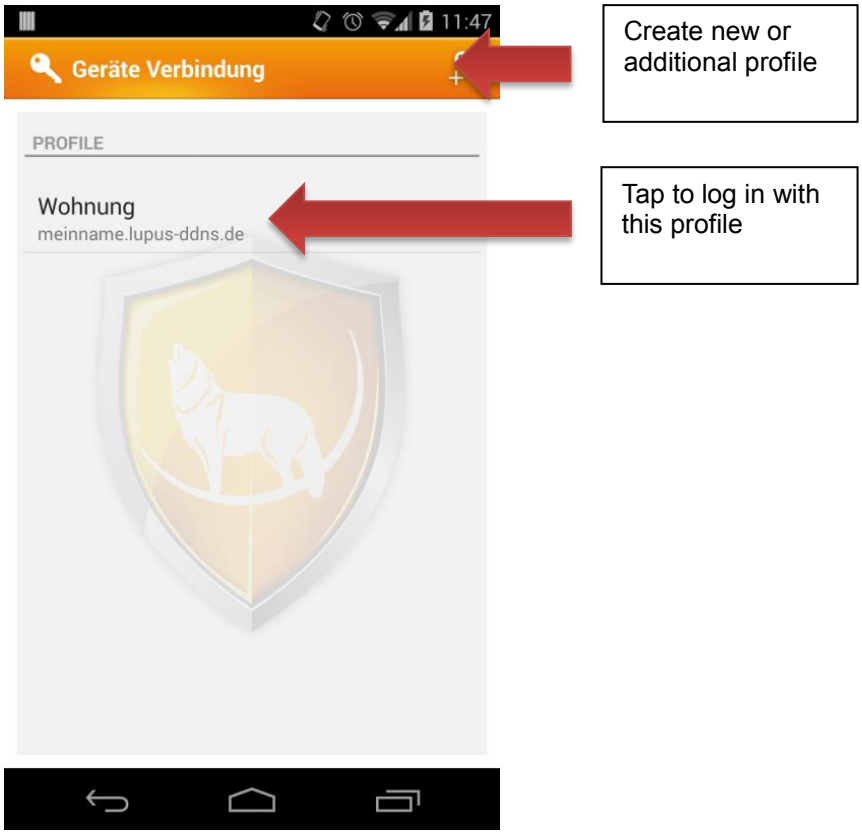
Choose a name (e.g. “Apartment”). This name will be shown in the profile list later.

- **URL or IP address**
  Enter the network address of your system (e.g. “myname.lupus-ddns.de“). You can also enter the IP address in the form “192.168.0.10”, but access in that case is possible only within the local network.
- **Port**
  Enter the port number. Port 80 for access via the local network or the required external port
- **User name**
  The user name for your alarm system (e.g. “admin“)
- **Password**
  The defined password for your alarm system

After having completed the settings, tap “Save”.

Profile list

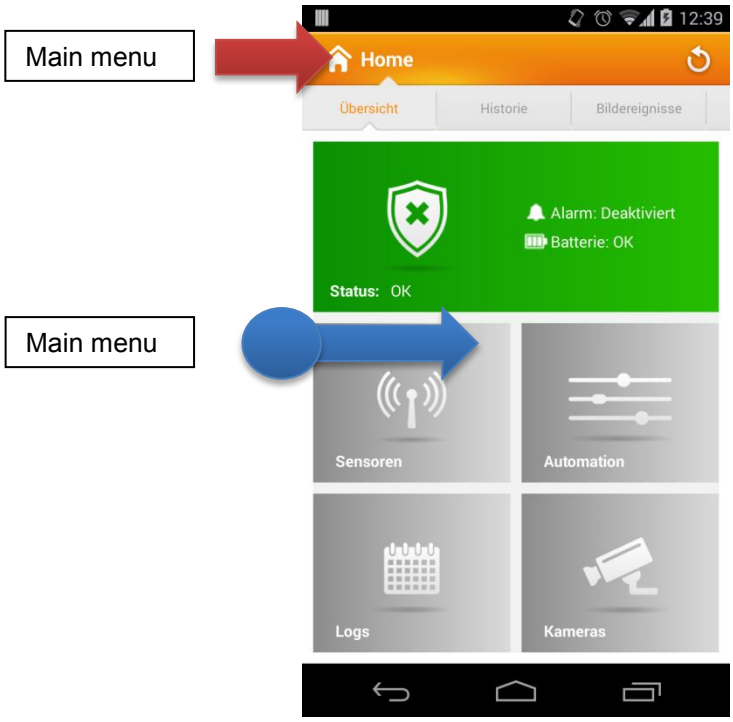
The following screen should be displayed:



Press the created profile to log into your system. Pressing the profile icon longer opens a menu, from which you can choose to delete or edit the profile.

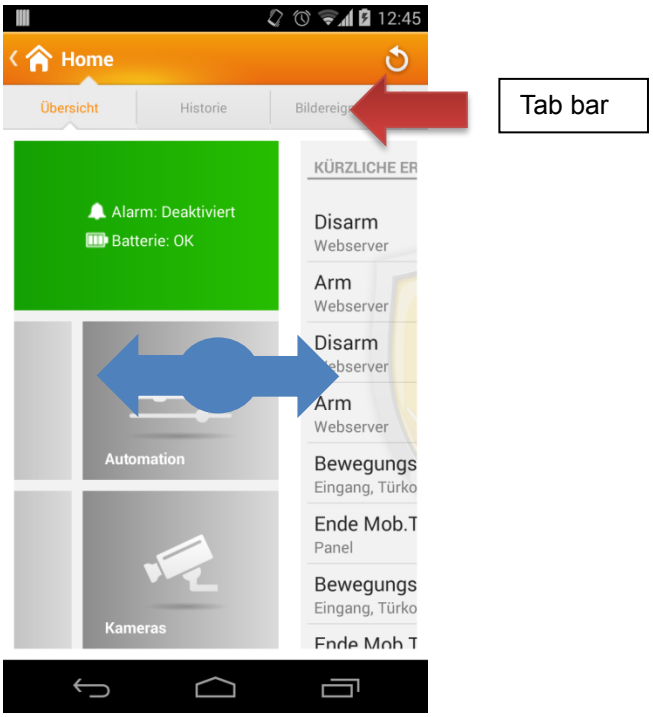
After the successful login, the main menu of the app/system opens.

Main menu



On the main screen of the app, you can open the menu either by swiping it from the left edge to the middle of the phone or by tapping the icon in the top left corner.

Navigation within the app

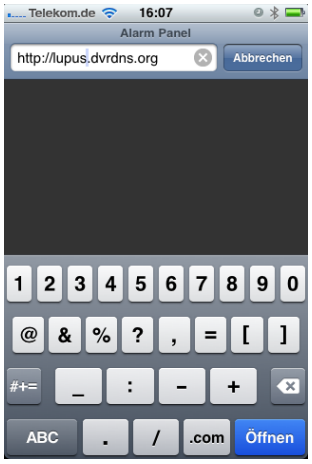


Within the app, you can switch between the pages by swiping either from left to right or from right to left. Alternatively, select the desired pages directly from the upper tab bar (see figure).

Mobile phone access via the mobile web interface

The LUPUSEC-XT1 provides you with a software interface tailored for Apple mobile phones. You can use the mobile interface to check the status of the alarm system, arm and disarm the system, check for open doors and windows and much more. To install the mobile web interface to your mobile phone, please proceed as follows:

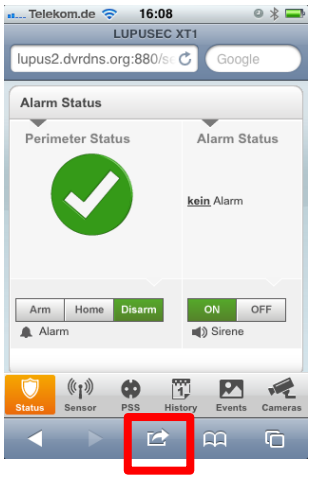
Call the local (e.g. 192.168.0.33) or public address (e.g. mydyndnsname.homeip.de) of your alarm system.



The local address can be used locally only, the public address everywhere:

Enter the user name and the password of the alarm system (standard user name: admin; password: admin1234)

After you successfully logged into the control unit, the following screen is displayed:



Tap the icon marked in red on the screen and then tap “Add to home screen”.

Tap “Add” on top to add the “LUPUSEC-XT1” app to your iPhone-home screen.

The mobile web interface will be loaded:

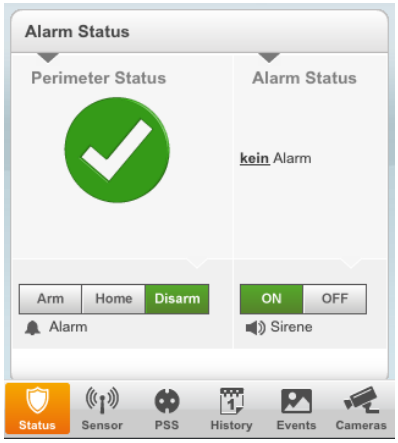
The user interface of the LUPUSEC-XT1 mobile app

With the mobile web interface, you can check the status of your alarm system, arm and disarm the alarm system, check for open windows or doors and many things more.

The bottom section of the mobile interface contains the menu bar. You can switch between the various information widgets.

The following menus are available:

The Status menu



Perimeter status
You can check whether everything is OK at home. The green check mark signals easily and quickly: “Everything OK - windows and doors are closed”.

The green check mark becomes a red cross , if either windows or doors are open or an alarm is active.

Alarm status
If an alarm is active, this screen reads “Alarm”.

In the following menu, you can arm the alarm system, set it in the home mode, or disarm the alarm system.
You can activate or deactivate the siren (of the control unit) by means of ON or OFF.

The Sensor menu

The Sensor widget shows the status of the sensors. All sensors with a “condition” are listed right on top (e.g. open window/door contacts or temperatures).

The Wireless sockets (PSS) menu

“Power Switch Sensors” (PSS) stands for power supply units, i.e. the wireless sockets and in-wall relays. You can activate or deactivate them.

The History

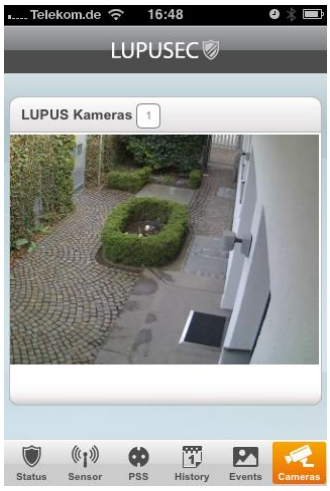
The “History” widget shows all recent events. A burglary is marked red in the history.

The Events menu

The Events menu shows all captured events of your PIR network cameras. In case of a burglary, they are stored directly in the control unit and can be retrieved from there.

The Camera menu

The “Camera” menu shows the pictures taken by maximum four LUPUSNET HD IP cameras or your LUPUSTEC analog recorders, if available/set up.



Full access via a mobile browser

To fully see the configuration menu in a mobile browser (e.g. to show the complete sensor list), most mobile browsers have the option “Desktop view”. If activated, your mobile phone should show the usual PC/notebook view. An iPhone app is expected for the end of 2014/beginning of 2015.

Description of sensors and controls

The LUPUSEC-XT1 supports various sensors, detectors, and controls. All of them are connected wirelessly to the XT1. An alternating encryption ensures the safe two-way communication between the control unit and the sensors.

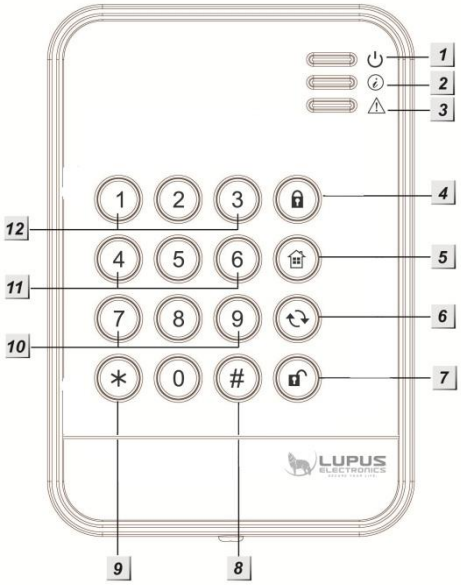
The following describes a variety of accessories to connect to the LUPUSEC-XT1 control unit. When integrating sensors, please observe the methods described as follows.

Note:

- Except for the outdoor siren, all XT1 components are designed exclusively for indoor use.

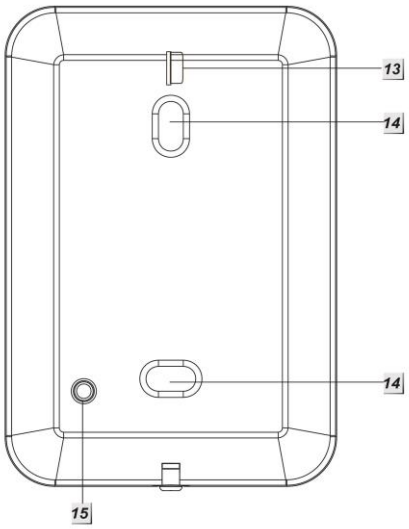
XT Keypad

Product description:



1. Power LED
2. Status LED
3. Error LED
4. Arm
5. Home
6. System status
7. Disarm
8. Pound key #
9. Star key *
   Installation mode = PIN + *
10. Emergency alarm: 7 + 9 (simultaneously)
11. Fire alarm: 4 + 6 (simultaneously)
12. Panic alarm: 1 + 3 (simultaneously)
13. Battery breaker (delivery status)
14. Mounting notches
15. Tamper contact

Note:
The dual shortcuts 1+3(12.), 2+6 (11.), and 7+9 (10.) are disabled by default.



LED indicators:

- **Power LED:**
  - Yellow LED lights up: active Test mode
  - Yellow LED flashes: active Test mode + low battery
  - Blue LED lights up for approx. 5 seconds: normal system status
  - Blue LED flashes: Low battery

Note:

- In normal operating mode, all LEDs are off.
- If a key is pressed, the Power LED lights up for 5 seconds, thus signaling operational readiness.

- **Status LED** (check system status of control unit with keypad):
  If you press the Status key on the keypad, the status of the control unit is checked. Soon after, the Status LED indicates the status:
  Red LED lights up: System is armed
  Red LED flashes: System is in Home mode
  Blue LED lights up: System is disarmed
  Blue LED flashes → error
  - No response from control unit
  - Incorrect PIN code
  - Home activated in armed (away) mode

- Arming forced despite sensor failure reports

- **Error LED:**
  Orange LED flashes: system error, e.g.
  - No SIM card
  - GSM not ready
  - Open tamper contact
  - Control unit power failure
  - Sensor out of range
  - Open sensor
  - Sensor battery low

- **Battery:**
  The keypad requires a 1/2 AA 3 V 850 mAH lithium battery. The average battery life is two years. If the battery is low, the orange Status LED on the keypad flashes.

Put the keypad into operation

Installation of keypad:

1. Remove the front cover from the keypad by unscrewing the lower screw.
2. Two holes are located on the back of the keypad. Drill through them and then mark the drill holes at the wall.
3. Fasten the keypad.
4. Attach the front cover.

Add keypad to control unit:

1. Open the installation mode by entering the PIN code of the keypad (default 0000) and then pressing the * key. The Power LED will light up in orange.
2. Open the main menu of the control unit and then the sub-menu “Sensors” → “Add”. Click Start.
3. Enter the sequence * + 7 in the keypad. The keypad should emit a signal sound and be displayed in the control unit.
   - If no audio signal sounds, the control unit was not able to receive the keypad signal.
   - If the keypad is found, three short signals sound.
4. Add the keypad to the control unit.
5. Perform the range test. Start the range mode of the control unit and take the keypad to its intended place of installation.
6. Enter the sequence * + 7 in the keypad.
7. The control unit should display the actual signal strength.
8. To **exit the installation mode**, press the “Open lock key” twice. Only then, you can arm and disarm the control unit with the keypad.
   The keypad sounds a signal and the Power LED goes off after a short while.

Change PIN code to arm/disarm/home:
Go to Home → PIN codes to change these codes.

Change alarm system status with keypad:

1. **Arm:**

User PIN (default 1234) + Arm (one long signal tone, the red Status LED lights up).

2. Disarm:

User PIN (default 1234) + Disarm (2 signal tones, the blue Status LED lights up).

3. Enable Home mode:

User PIN (default 1234) + Home and then 1, 2, or 3 to activate the required Home mode (three signal tones and the red Status LED flashes four times).

***Note*:**

- If a system error is displayed (the third LED flashes), you can usually ignore it by activating the Arm/Home mode again within ten seconds.
- Alternatively, you can configure the control unit so that the status is always changed irrespective of system errors via “Settings” → “Control unit” → “Settings” → “Forced arming” switch to “On”.
- The keypad transmits its status “only” upon input. That is the reason why you can see that the batteries are low, but not that they are empty!

Activate dual key functions:

The keypad can trigger panic alarm, fire alarm, or medical emergency alarm by means of predefined shortcuts. Once activated, these shortcuts can be used **without entering the PIN code**! To activate the dual keys, please proceed as follows:

Start the Test mode by entering the installer PIN code of the keypad (default 0000) and then pressing the * button. The Power LED lights up in orange.

In the Test mode, press the following keys to activate the respective functions:

Activate dual key functions 1+3 (panic alarm): * + 2
Activate dual key functions 4+6 (fire alarm): * + 3
Activate dual key functions 7+9 (emergency alarm): * + 4
Activate all dual key functions: * + 5

Additional optional settings in Test mode:

Add the keypad to the control unit: * + 7
Change the installation PIN code: *+6
1. Enter the current PIN code (default 0000).
2. Press the Status button. A long signal tone sounds.
3. Enter the new four-digit PIN code.
4. Press the # button to save the new PIN code.
Activate Arm/Home without PIN input: * + 8
Activate Arm/Home with PIN input: * + 9

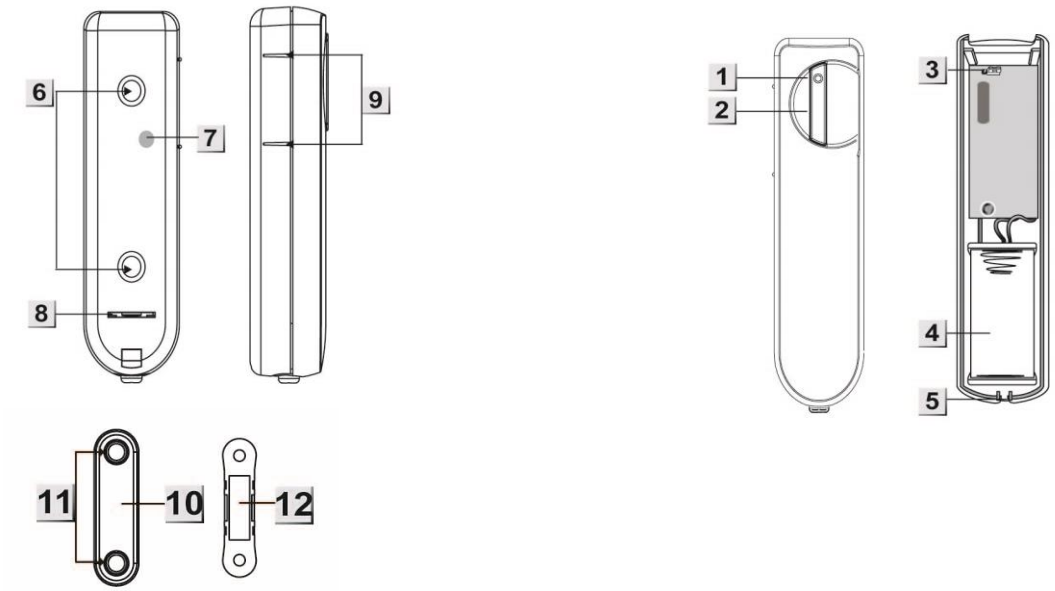
To **exit the installation mode**, press the “Open lock key” twice.

Reset:

If you forgot your PIN code, you can reset the keypad to the **factory settings**. For this purpose, please proceed as follows:
1. Open the housing, making sure not to trigger the tamper contact.
2. Remove the batteries.
3. Press and hold pressed the button 3, while you reinstall the batteries.
4. Release the button 3.

After the **Reset**, the installer PIN code is set to default 0000.

Window/door contact



Product description:

1. LED indicator
2. Test button
3. Switch (JP1): status monitoring
4. Battery
5. Lock screw
6. Mounting holes
7. Tamper contact
8. Battery breaker (delivery status)
9. Magnetic contact markings
10. Magnetic contact (to be positioned at the markings)
11. Mounting holes
12. Magnet

LED indicator:

Under normal circumstances, the LED of the window/door contact will be off. It lights up only in the following cases:

- If the window/door contact is removed or turned in a different position
- If the battery is low
- In the Test mode (e.g. range test)

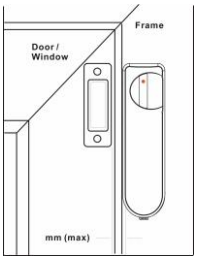
Battery:

The window/door contact requires a 3 V 1/2 AA (CR2) lithium battery. The average battery life is 2.6 years.

Put the window/door contact into operation

1. Remove the battery breaker from the back of the contact to energize the window/door contact.
2. Open the main menu of the alarm system.
3. Open the menu “Sensors” → “Add”.
4. Click Start.
5. Press the Test button of the window/door contact. A red LED lights up.
6. The control unit will confirm the successful addition with a brief signal tone, display the sensor and then list it in the Sensors menu.
7. Start the range test in the control unit and take the window/door contact to the intended place of installation.
8. Then press the Test button. If the position is within the range, a red LED lights up at the window/door contact.
9. Test the signal strength in the Range menu of the alarm system (1-9).
10. If the position is suited, you can install the window/door contact.

Installation:



Install the magnet to the side of the door or window and attach the window/door contact to the frame. Observe the markings (9) to position the magnet exactly.

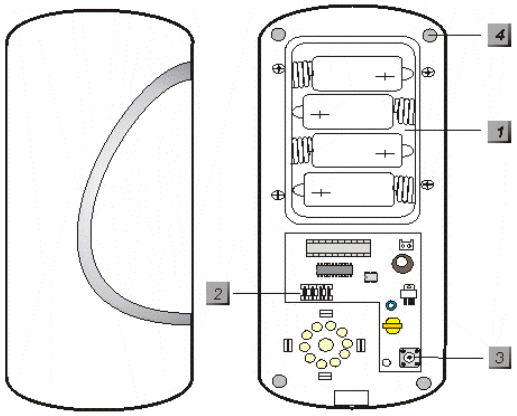
Note:

- The distance between magnet and window/door contact must not exceed 20 mm.
- You can either fasten both components with screws or fix them with the supplied adhesive pads. We recommend fastening a thin cardboard strip, plastic strip, or similar between tamper contact and adhesive pad to prevent the tamper contact from poking into the adhesive pad and thus triggering tamper alarm. At any rate, make sure that the adhesive pads cannot come off without external influence.
- Do not bridge JP1 to allow the signal transmission to the control unit whenever the battery is checked.
- After pressing the Test button, the LED indicator of the window/door contact lights up briefly for three minutes every time the contact is opened or closed. After the three minutes, the LED indicator does not light up anymore.

Wireless indoor siren

Product description:

1. Battery compartment
2. DIP switches
3. Tamper contact
4. Mounting holes

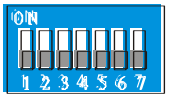


Scope of delivery:

4 x screws + dowels
4 x 1.5 V D alkaline battery

Put the wireless indoor siren into operation

1. Remove the bottom of the wireless indoor siren by unscrewing the screw at the bottom.
2. Unscrew the four battery compartment screws and insert the supplied batteries. A brief signal sounds.
3. A blue switch bay with altogether seven switches is located in the middle of the electronic component. By default, they are all set to OFF (down).



4. The following table lists the functions of the switches:

SW1		**Mode to add the siren to the control unit**
OFF		Off
ON		On
SW2		*Not occupied*
SW3	**SW4**	**Alarm duration**
OFF	OFF	3 minutes (default setting)
ON	OFF	5 minutes (not allowed in Germany)
OFF	ON	10 minutes (not allowed in Germany)
ON	ON	One second (Test mode)
SW5		*Not occupied*
SW6		**Reset memory**
OFF		Normal
ON		Deletes memory
SW7		**Sends a status signal to the control unit**
OFF		Off
ON		On

5. Start the control unit's configuration page, open the menu "Sensors" → "Add" and click "Start".
6. To put the wireless indoor siren into operation, set SW1 from OFF to ON. The wireless indoor siren sounds a brief signal tone for confirmation.
7. The control unit will now detect the wireless indoor siren and list it under "Detected sensor". If the siren is not found, repeat step 6.

8. If the siren was found, the control unit sounds a signal tone for confirmation.
9. **Set SW1 back to OFF**. Exit the learn mode.
10. Test the siren function by simulating an alarm or actuating the tamper contact.
11. **Caution:** The siren is very loud (104 dB)! Deactivate the sound either by disarming the alarm system or by interrupting the power supply.
12. Set SW7 to ON, if you want battery monitoring.
13. Open the menu Sensors → Siren in the control unit and specify the conditions to activate the siren in "External siren control".
14. In the Range menu, verify that the signal strength at the desired location is sufficient. Click on Start and activate SW1 in the siren (only) for the range test. The higher the indicated number, the better the reception (1-9).

Siren settings:

Configure all the external sirens via the menu "Sensors" → "Devices".

- **Tamper contact on / off**

Deactivates the tamper contact of all currently connected external sirens (installed in addition to the control unit) **for one hour** (useful e.g. to change the batteries). To deactivate the tamper contact of the siren(s), please proceed as follows:

- Click "Tamper contact" → "Off".
- Then click "OK" below.

***Note*:**
If the tamper contact is disabled, the siren does not transmit status updates to the control unit anymore for as long as it is disabled. For that period, you can also not see the current state of the tamper contact via Sensors → List.

Caution!
If you open the siren without deactivating the tamper contact before, the audio alarm of the siren will be activated even if the siren is not integrated in the control unit anymore! In that case, you should wear ear protection and disconnect the power supply as quickly as possible.

- **Confirmation signal on / off (Arm/Disarm)**
  With this function active, the siren will sound a signal when arming/disarming.
  To disable the confirmation signal of the siren(s) upon arming/disarming, proceed as follows:
  - Click "Confirmation (arm/disarm) signal" → "Off".
  - Then click on "OK" below.

Note:
If the tamper contact of the siren is open when arming, five brief signal tones in quick succession will sound despite the confirmation signal being disabled.

- **Entrance signal on / off**
  With this function active, the siren will sound confirmation signals for the duration of the defined delay until the system is armed.
  To disable the warning signal of the siren(s) upon entry/exit, proceed as follows:
  - Click "Entrance signal" → "Off".
  - Then click "OK" below.

Note:

- These three settings are transmitted only, but not permanently stored in this menu. After their transmission, all three settings are ON again - but they were stored in the sirens, after they transmitted the confirmation signal.
- In addition, please observe that the configuration is transmitted to all currently connected and active external sirens. If you want to configure several sirens differently, you should install these sirens later or just disconnect these sirens from the power supply temporarily. It is impossible to read out the current siren configuration.

Battery:

The wireless indoor siren requires 4 D-cell alkaline batteries. The average battery life is two years (depending on the usage).

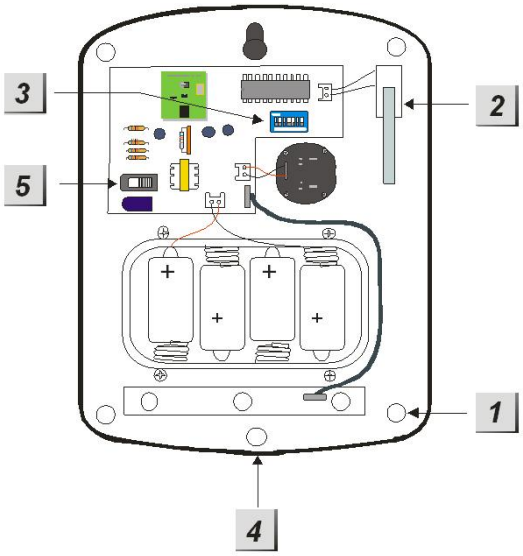
Warning sounds and signals of the indoor siren:

	Signal tone
Arm/Home	1 beep*
Disarm	2 beeps*
Arm (low battery)	5 beeps
Disarm (low battery)	5 beeps
Arm (tamper)	5 beeps
Disarm (tamper)	2 beeps*
Pre-alarm	3 seconds beep
Tamper alarm	Continuous beeps
Entrance/exit signal tone	Continuous beeps until time has elapsed

Wireless outdoor siren

Product description:

1. Mounting holes
2. Tamper contact
3. DIP switches
4. Lock screw
5. On/off switch

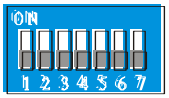


Scope of delivery:

4 x screws + dowels
4 x 1.5 V D alkaline batteries

Put the wireless outdoor siren into operation

1. Open the wireless outdoor siren by unscrewing the screw at the bottom.
2. Turn the on/off switch (5) to ON. A brief signal tone sounds.
3. A blue switch bay with altogether seven switches is located in the middle of the electronic component. By default, they are all set to OFF (down).



4. The following table lists the functions of the switches:

SW1		**Mode to add the siren to the control unit (then back to OFF)**
OFF		Off
ON		On
SW2		*Not occupied*
SW3	**SW4**	**Alarm duration**
OFF	OFF	3 minutes (default setting)
ON	OFF	5 minutes (not allowed in Germany)
OFF	ON	10 minutes (not allowed in Germany)
ON	ON	One second (Test mode)
SW5		*Not occupied*
SW6		**Reset memory**
OFF		Normal
ON		Deletes memory
SW7		**Sends a status signal to the control unit**
OFF		Off
ON		On

5. Start the control unit's configuration page, open the menu "Sensors" → "Add" and

click “Start”.

6. To put the wireless outdoor siren into operation, set SW1 from OFF to ON. The wireless outdoor siren sounds a brief signal tone for confirmation.
7. The control unit will now detect the wireless indoor siren and list it under “Detected sensor”. If the siren is not found, repeat step 6.
8. If the siren was found, the control unit sounds a signal tone for confirmation.
9. **Set SW1 back to OFF**. Exit the learn mode.
10. Test the siren function by simulating an alarm or actuating the tamper contact.
11. **Caution:** The siren is very loud (104 dB)! Deactivate the sound either by disarming the alarm system or by interrupting the power supply.
12. Set SW7 to ON, if you want battery monitoring.
13. Open the menu Sensors → Siren in the control unit and specify the conditions to activate the siren in “External siren control”.
14. In the Range menu, verify that the signal strength at the desired location is sufficient. Click on Start and activate SW1 in the siren (only) for the range test. The higher the indicated number, the better the reception (1-9).

Siren settings

Configure all the external sirens via the menu “Sensors” → “Devices”.

- **Tamper contact on / off**
  Deactivates the tamper contact of all currently connected external sirens (installed in addition to the control unit) **for one hour** (useful e.g. to change the batteries). To deactivate the tamper contact of the siren(s), please proceed as follows:
  - Click “Tamper contact” → “Off”.
  - Then click “OK” below.

***Note*:**
If the tamper contact is disabled, the siren does not transmit status updates to the control unit anymore for as long as it is disabled. For that period, you can also not see the current state of the tamper contact via Sensors → List.

Caution!
If you open the siren without deactivating the tamper contact before, the audio alarm of the siren will be activated even if the siren is not integrated in the control unit anymore! In that case, you should wear ear protection and disconnect the power supply as quickly as possible.

- **Confirmation signal on / off (Arm/Disarm)**
  With this function active, the siren will sound a signal when arming/disarming.
  To disable the confirmation signal of the siren(s) upon arming/disarming, proceed as follows:
  - Click “Confirmation (arm/disarm) signal” → “Off”.
  - Then click on “OK” below.

Note:
If the tamper contact of the siren is open when arming, five brief signal tones in quick succession will sound despite the confirmation signal being disabled.

- **Entrance signal on / off**
  With this function active, the siren will sound confirmation signals for the duration of the defined delay until the system is armed.
  To disable the warning signal of the siren(s) upon entry/exit, proceed as follows:
    - Click “Entrance signal” → “Off”.
    - Then click “OK” below.

Note:

- These three settings are transmitted only, but not permanently stored in this menu. After their transmission, all three settings are ON again - but they were stored in the sirens, after they transmitted the confirmation signal.
- In addition, please observe that the configuration is transmitted to all currently connected and active external sirens. If you want to configure several sirens differently, you should install these sirens later or just disconnect these sirens from the power supply temporarily. It is impossible to read out the current siren configuration.

Battery:

The wireless indoor siren requires 4 D-cell alkaline batteries. The average battery life is two years (depending on the usage).

Warning sounds and signals of the indoor siren:

	Signal tone	Signal lights
Arm/Home	1 beep*	The 3 LEDs light up once
Disarm	2 beeps*	The 3 LEDs light up once one after another
Arm (low battery)	5 beeps	The 3 LEDs light up three times
Disarm (low battery)	5 beeps	The 3 LEDs light up twice one after another
Arm (tamper)	5 beeps	The 3 LEDs light up three times simultaneously
Disarm tamper)	2 beeps*	The 3 LEDs light up twice one after another
Pre-alarm	3 seconds beep	The 3 LEDs light up twice one after another
Tamper alarm	Continuous beeps	The 3 LEDs flash constantly simultaneously
Entrance/exit signal tone	Continuous beeps until time has elapsed	Nothing

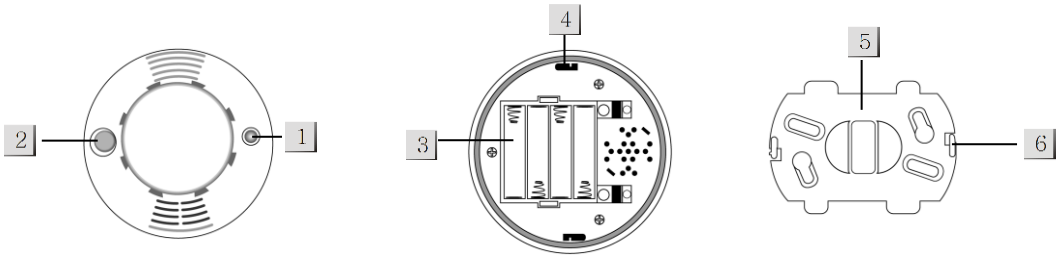
Smoke detector

Product description:

The smoke detector works according to the optical principle. It has a measuring chamber, where entering smoke particles are measured. If the smoke concentration exceeds the permissible threshold, the smoke detector sounds a loud acoustic alarm (95 dB, one meter distance). Smoke detectors are intended to save lives and not to prevent fires.

Sensor data:

Dimensions (without bracket):	Ø 10.6 x 4.4 cm
Weight:	220 grams
Operating location:	Indoors only
Operating temperatures:	-10°C to 45°C
Humidity:	Maximum 95% (without condensed water)
Microwave frequency:	10.525 GHz
Alarm system frequency:	868.6375 MHz
Certification:	DIN EN 54-7 and EN 14604



1. LED:

- After you inserted the batteries, the smoke detector is automatically in the calibration mode. The LED flashes during that time. You can add the device to the control unit.
- The LED flashes every 30 seconds, if the integrated batteries run low.
- The LED is permanently on, while the smoke detector transmits a signal to the control unit.

2. TEST button

Press the Test button in the following cases:

- You want to add the smoke detector to the control unit.
- You want to perform the range test.
- You want to perform a functional test.
  2 brief signals = function OK
  3 signals = optical sensor defect or soiled
  No sound = device is not in operation or defect

3. Batteries

Install only 4 x AAA batteries. The average battery life is 2.5 years. If the batteries run low, the smoke detector will alert you with optical and acoustic signals. Before you change the batteries, press the Test button twice to discharge residual current.

4. Installation notch

5. Mounting bracket
6. Attachment hook

Put the smoke detector into operation

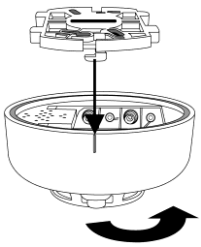
1. After you inserted the batteries, two brief signals sound. The LED starts flashing. You have six minutes (warm-up phase) to add the smoke detector to the control unit.
2. Open the configuration page of the control unit and start the login process in the Sensors menu.
3. Press the Test button at the smoke detector. Two brief signal tones sound.
4. If the control unit detects the device, it emits a signal tone for confirmation.
5. Now add the smoke detector to the control unit.

Note:

- The calibration starts after the six minutes warm-up phase of the smoke detector. A short beep sounds every 100 seconds during these six minutes. The calibration takes about 2 to 16 minutes and is completed at the end with two successful signals. If the calibration failed after 16 minutes, a constant beep will sound. In that case, remove the batteries and restart with step 1.
- You cannot integrate the smoke detector during the calibration; this is possible only before or after the calibration process.

6. Perform an optional range test.
   For this purpose, open the menu **Sensors** → **Range** and click on Start. Take the smoke detector to the place of installation and press the Test button of the smoke detector. The test menu of the control unit indicates the signal strength of the radio transmission. The higher the value the better the radio signal (1-9).

Mounting of smoke detector:



1. Use the bracket (5) as a template to drill the holes.
2. Mount the bracket so that the two hooks (6) face down.
3. Press the installation notches (4) onto the attachment hooks (6) and lock it with pressure and a clockwise turn, making sure that the line located at the side of the smoke detector is directly below one of the hooks.

In case of alarm:
If the smoke concentration exceeds the threshold, the detector will immediately report this to the XT1 and additionally emit a loud signal tone for ten seconds. If the smoke concentration measured after these ten seconds is still high, a signal tone is emitted again for ten seconds, until there is no more smoke in the measuring chamber. If you press the Test button in case of an alarm, the smoke detector will be deactivated for ten minutes. After these ten minutes, the smoke detector will sound two signal tones and return to its normal operating mode.

Place of installation of smoke detector:

- Install the smoke detector always at the highest point and with minimum distance

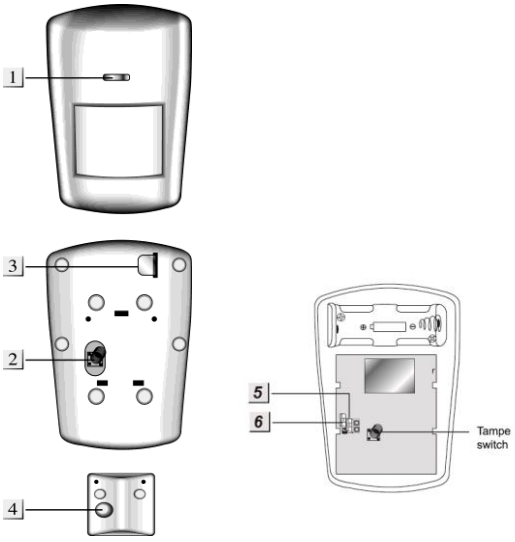
of 60 cm to the wall.
- Do not install the smoke detector in kitchens or bathrooms or other moist rooms to avoid false alarms and to increase the service life.
- Do not install the smoke detector close to air conditioning systems or fans.

Cleaning:
Check the smoke detector regularly for proper function (TEST button) and clean it, if it is soiled.
In that case, carefully suction clean or blow clean it.
Do not use any liquids for cleaning.
Water must not enter the inside of the device.

Note:
- In case of an alarm, the control unit and the smoke detector will alert. Additionally installed smoke detectors will not trigger alarms.
- Even if the smoke detector has lost contact to the control unit (radio interference, control unit off, large distance), it will **always** react to smoke and alert you with its own siren!
- Replace the smoke detector after ten years at the latest for your own safety.

PIR motion detector

Product description:



1. Test button with LED indicator
2. Tamper contact
3. Battery breaker (delivery status)
4. Corner mount
5. Status update on/off (jumper 2)
6. Switch (jumper 3) to increase the sensitivity

LED indicator:

The LED is usually off in normal operation, except for the following situations:

- If the battery runs low, the LED lights up for 2 seconds after motion detection.
- If a tamper alarm is triggered, the LED lights up for 2 seconds while the alarm signal is being transmitted.
- Pressing the Test button for approx. 5 seconds will set the motion detector to the test mode for 3 minutes. During this time, the LED lights up with every motion. Use this function for optimal alignment.

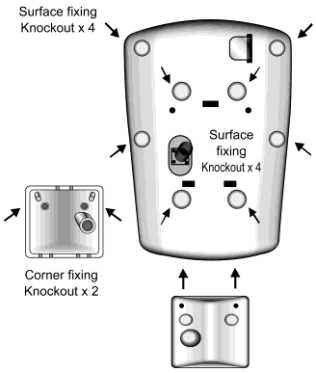
Battery:

- The motion detector requires a 3.0 V CR123 lithium battery. With 20 detected motions per day, the average battery life is approx. 3 years.
- If the battery runs low, the motion detector sends the status to the control unit.

Put the PIR motion detector into operation

1. Remove the battery breaker from the back of the motion detector to supply the device with power.
2. The device starts. This process takes approx. 30 seconds. Wait until the LED stops flashing and do not trigger the motion detector during this time.
3. Start the configuration menu of the control unit and open the menu Sensors → Add. Click Start.
4. Press the Test button of the detector once. The menu should indicate the motion detector after a short while.
5. Start the Test mode of the control unit to verify that that the motion detector at the intended location is within the range.
6. Take the motion detector to the intended place of installation and press the Test button of the device. The test menu of the control unit indicates the signal strength of the radio transmission. The higher the value the better the radio signal (1-9).

Installation:

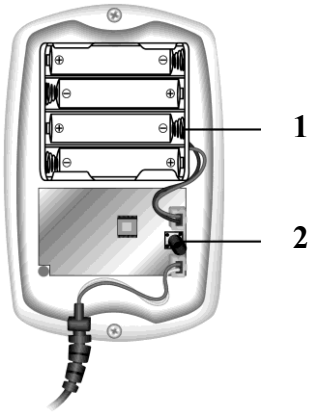


There are five holes in the middle of the motion detector's back (3 slots, 2 small holes) to fasten the corner mount. Next to them, four notches are located for frontal wall mounting. There are two additional notches at each side to mount the motion detector angularly to the wall. You need to screw the screws through the notches for the wall mounting.

Warm-up phase:
The PIR motion detector is set to a one-minute warm-up phase every time the system is armed or set to home mode. During that phase, it cannot detect any motions. Do not trigger any motions, as otherwise the warm-up phase extends by another minute.

Note:
- The horizontal angle of the PIR motion detector is 130°.
- To enable the optimal motion detection, install the motion detector at a height of **1.8 to 2.0** meters and align the Test button to the top.
- Pay attention to the dead spot directly below the detector.
- Do not install the motion detector within the detection range of another detector (e.g. motion detector with light in front of the entrance door).
- Do not expose the motion detector to direct sunlight.
- Do not install the motion detector close to heaters or air conditioning systems.
- The detection range is approx. 12 meters, if the detector is installed at a height of 2 meters. At a height of e.g. 1.9 meters, the detector is pet immune up to approx. 7 meters.
- Set the jumper 3 (JP3) to OFF to reduce the sensitivity.
- Set the jumper 2 (JP2) to OFF to activate the battery check (supervisor).
- Unless in the test mode, the motion detector can detect a motion only every **three** minutes (irrespective of the control unit status).

Water detector



Product description:

1. Battery
2. Test button

Put the water detector into operation

1. Open the housing by unscrewing the two screws from the housing bottom.
2. Install the supplied batteries.
3. Start the XT1 configuration menu and open the menu “Sensors” → “Add”.
4. Click „Start“.
5. Press the Test button on the electronic component of the water detector.
6. The XT1 configuration menu should indicate the water detector.
7. Add the water detector.

Battery:
The water detector requires four alkaline batteries. The average battery life is approx. 3 years. The water detector sends the status to the control unit every 30 to 50 minutes. If the battery runs low, this is reported to the control unit immediately.

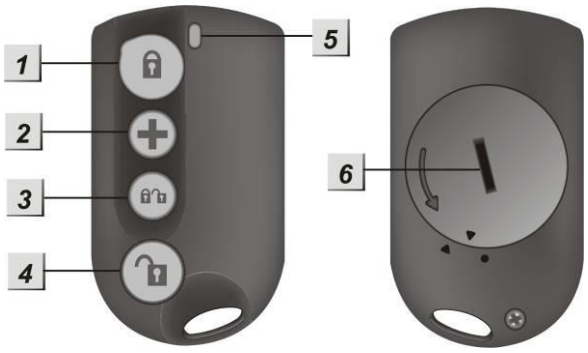
Installation:
1. Remove the screws from the housing bottom.
2. Drill through the two notches left for the screws, if you want e.g. to fasten it to the wall.
3. Mount the water detector the wall using the supplied screws.
4. Place the water detector, which is at the end of the cable, at the location, where it is intended to trigger water alarm, e.g. on the floor. If water forms a bridge between the two pins, it triggers an alarm. Fix the sensor so that it cannot accidentally shift.
5. Close the housing and fix it with the screws.

Note:
In case of water contact, the water detector sends an alarm to the control unit twice at a two-minute interval. If the water level falls again, the water detector returns to its

normal mode.

Remote control

The XT1 remote control is able to arm/disarm the system or set it to home mode.



Product description:

1. **Arm button**
   Press this button for approx. 3 seconds to arm the system. A warning signal (long beep) confirms this. Then you have a certain adjustable period to leave the house, before the system is armed automatically.
   If a window/door contact or tamper contact is still open, then system cannot be armed at the first attempt, which is signaled by two brief signals.
2. **(+) button**
   If you keep this button pressed for minimum 3 seconds, the system will receive a panic alarm and alert irrespective of the set mode.
3. **Arm/disarm button (Home button)**
   This button shows the arm/disarm icons. Activates the Home mode.
4. **Disarm button**
   Press this button to disarm the system. If the system is currently raising alarm, this deactivates the siren/alarm as well. In case of a panic alarm however, the alarm system needs to be deactivated via the web interface.
5. **LED indicator**
   The red LED lights up briefly every time you press a button (attempts transmission to the control unit). If you press the panic button, the LED lights up five times and then transmit the panic alarm.
6. **Battery cover**
   The remote control requires a CR2032 3 V 230 mAh lithium battery. The average battery life is two years. The battery status is transmitted to the control unit with each transmission.

Put the remote control into operation

1. Use a coin to open the battery cover.
2. Install the battery with the negative side facing down (flat side up).
3. Close the battery cover.
4. Open the main menu of the XT1 and open the menu “Sensors” → “Add”. Press “Start”.
5. Press one of the remote control buttons for approx. 3 seconds.

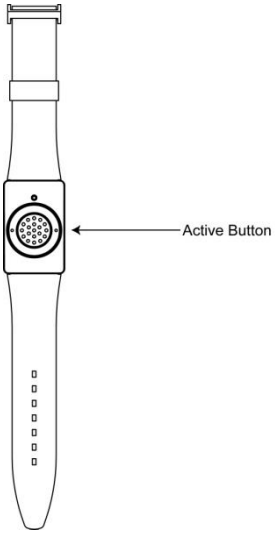
6. The control unit should indicate the remote control after a short while. Add it to the control unit.

Medical emergency controller

Product description:

Alarm button:

- If the alarm button is pressed for more than one second, the control unit triggers an alarm.
- If this button is pressed for more than eight seconds during the alarm, the alarm is deactivated.
- The LED illuminating confirms this.



Put the medical emergency controller into operation

1. Start the XT1 configuration menu and open the window “Sensors” → “Add”. Then press „Start“.
2. Press the alarm button of the medical emergency controller.
3. The control unit should then indicate the medical emergency controller after a short while. Add it to the control unit.

Battery:

The medical emergency controller requires a CR2032 3 V lithium button cell. The average battery life is approx. four years.

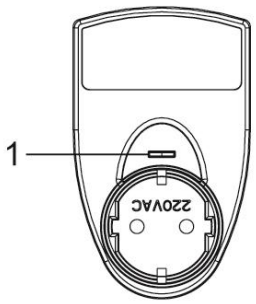
Activate battery status indicator:

If required, you can activate the battery status indicator. For this purpose, press the alarm button for minimum 15 seconds and ignore the LED signals at one and eight seconds.

The LED will flash three times after 15 seconds. From then on, the medical emergency controller will transmit the battery status to the control unit every 24 hours. If the battery runs low, the control unit will be informed.

Wireless sockets (PSS)

Product description:
With an integrated wireless socket, you can supply a connected end device with power remotely (via web access/smartphone) or by manually pressing the LED button.



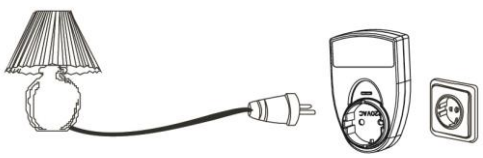
You can create rules to specify when a wireless socket is to be activated or deactivated automatically as required. Refer to the chapter “Automation” for further information.

LED indicator:

- The red LED lights up three times, when the power device is connected to a socket.
- If the LED goes off and on again: The ACK RF signal is being transmitted.
- LED on: power on
- LED off: power off
- LED flashes slowly: The power device is in Test mode and can be added to the system.
- LED flashes fast twice: Successful integration of power device

Put the wireless socket (with electric meter) into operation

1. Plug the power device into a socket.
2. Press the LED for 10 seconds minimum. The LED starts flashing slowly (Test mode).
3. Start the control unit’s configuration menu and open the menu Sensors → Add. Click Start.
4. If the system recognizes the power device, the LED blinks fast twice and goes off.
5. The XT1 should now indicate the wireless socket. Add the wireless socket to the control unit and assign it with an optional name.
6. Connect the end device.



Range test (only wireless sockets with electric meter):
You can test the signal strength at the intended place of installation. For that purpose, press Range test → Start in the control unit menu Sensors → Range and then press the LED of the plugged in wireless socket once. The higher the indicated number the better the reception (1-9).

Note (only wireless sockets with electric meter):

- The power consumption in Watt and the state (on/off) is displayed via Sensors → List → Status.
- You can activate or deactivate the PSS wireless socket manually via Home → Overview → Control or alternatively via Sensors → List (on/off).

Put the wireless socket (without electric meter) into operation

1. Plug the power device into a socket.
2. Press the LED for 10 seconds minimum. The LED starts flashing slowly (Test mode).
3. Start the control unit's configuration menu and open the menu Sensors → Wireless sockets. Click "Add" behind one of the eight channels.
4. If the system recognizes the power device, the LED blinks fast twice and goes off.
5. Optionally assign the wireless socket with a name.
6. Connect the end device.

Note:

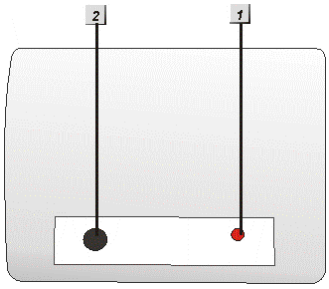
- You can activate or deactivate the wireless sockets without electric meter manually via Home → Overview → Control or alternatively via Control unit → Wireless switches (On/Off).
- The maximum load at 230 V is 3680 W / 16 A. Do not exceed these values!
- After a power failure, the wireless socket returns to the initial state within one minute.
- The wireless sockets are **not** compatible with the wireless repeater.

Glass breakage detector

Product description:
The glass breakage detector reacts to the sound of breaking glass und alerts the alarm control unit. To avoid false alarms, the detection is done in two steps: First, the detector registers the breaking of glass and then the pieces of glass falling to the ground. Install the glass breakage detector with a minimum distance of one meter and a maximum distance of six meters from the glass surface.

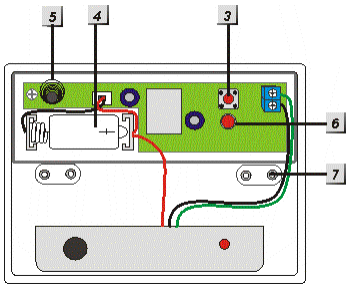
Sensor data:

Dimensions (without mount):	10.8 x 8 x 4.3 cm
Weight:	140 grams
Operating location:	Exclusively indoors. Ideally opposite to glass surfaces to be monitored
Operating temperatures:	-10 °C to 55 °C
Humidity:	Maximum 85 %
Alarm system frequency:	868.6625 MHz



1. LED indicator (outside)
2. Microphone
3. Test button
4. Battery clip
5. Tamper contact
6. LED indicator (inside)
7. Mounting holes

LED indicator (outside):



- The LED briefly lights up in case of sounds in normal operation.
- The LED lights up in case of alarm or tampering (glass breakage).
- The LED flashes in the Test mode.

Battery:

The glass breakage detector requires a 3.6 V 1/2 AA lithium battery. The average battery life is approx. three years. The control unit will inform you in case of a battery running low.

Put the glass breakage detector into operation

1. Open the housing.
2. Insert the battery.
3. Start the control unit's configuration menu and open the menu Sensors → Add. Click Start.
4. Press the Test button of the glass breakage detector.
5. The configuration page of the control unit should list the glass breakage detector.
6. Add the glass breakage detector.

7. You can test the signal strength at the intended place of installation. For that purpose, go to the intended place of installation, press Range test → Start in the control unit menu Sensors → Range and then press the Test button of the glass breakage sensor. The higher the indicated number the better the reception (1-9).

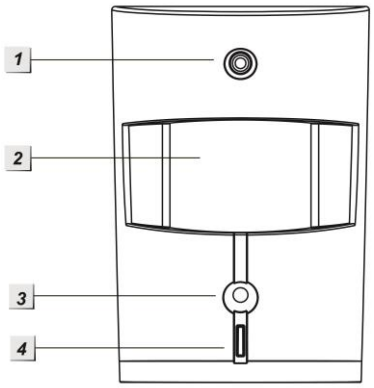
Note:

- The sensor list lists the glass breakage detector as door contact.
- You can mount the detector to the ceiling or the wall.
- The glass breakage detector detects sounds and sound shock waves in a 360° radius.
- Make sure that no obstacles are between the window and the glass breakage detector.
- Install the glass breakage detector in open spaces (not in corners), so that the sound waves can reach the sensor from as many sides as possible.
- Do not install the glass breakage detector close to other electric appliances.
- Set jumper 2 (JP2) to OFF to activate the supervisor function (battery check).

PIR network camera

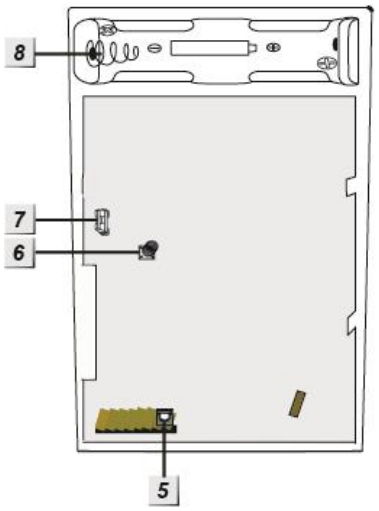
Product description

1. Flash
2. Infrared sensor
3. Camera lens
4. Blue LED / Test (Learn) button
5. LED ON/OFF jumper (JP1)
6. Tamper contact
7. Standby mode ON/OFF jumper (JP2)
8. Battery compartment



Blue LED:

- The LED (4) lights up every 20 seconds, if the sensor is not added to the control unit yet.
- The LED flashes three times in case of motion detection when the system is armed.
- The LED flashes once in case of motion detection in Test mode.
- If the LED is constantly on, the camera is defect.
- If jumper 5 (JP1) is removed, this deactivates the blue e LED (4) to save energy.



Put the PIR network camera into operation

1. Open the housing.
2. Insert the battery.
3. Start the control unit's configuration menu and open the menu Sensors → Add. Click Start.
4. Press the Test button of the PIR network camera. The camera flash will light up after approx. 10 to 20 seconds. Release the Test button briefly and press it again for a few seconds.
5. The configuration page of the control unit should list the PIR network camera.
6. Add the PIR network camera.
7. You can test the signal strength at the intended place of installation. For that purpose, go to the intended place of installation, press Range test → Start in the control unit menu Sensors → Range and then press the Test button of the PIR network camera for at least three seconds. The higher the indicated number the better the reception (1-9).

Battery:
The PIR network camera requires two 1.5 V AA lithium batteries. The average battery

life is approx. three years. The control unit will inform you in case of a battery running low.

Installation:
We recommend installing the PIR network camera at a location which:

- A possible burglar will pass for sure
- Is at a height between 1.9 and 2 meters
- Is in the corner of the room for optimal overview
- Provides for an unrestricted field of view over the room
- The detection range is approx. 12 meters with the camera installed at a height of 2 meters.

- Do not install the PIR network camera with direct view to a door or window secured by a window/door contact. In case of an alarm, both alarm signal may interfere and may not be recognized.
- Do not install the PIR network camera within the detection range of another detector (e.g. motion detector with light in front of the entrance door).
- Do not expose the PIR network camera to direct sunlight.
- Do not install the PIR network camera close to heaters or air conditioning systems or in a conservatory.

Test mode:
Press the Test button for approx. 5 seconds (JP2 must be activated) to set the PIR network camera to Test mode. During this time, the LED lights up upon every motion. Use this function for optimal alignment.

Warm-up phase:
The PIR network camera is set to a one-minute warm-up phase every time the system is armed or set to home mode. During that phase, it cannot detect any motions. Do not trigger any motions, as otherwise the warm-up phase extends by another minute.

Standby mode ON/OFF jumper (JP2):

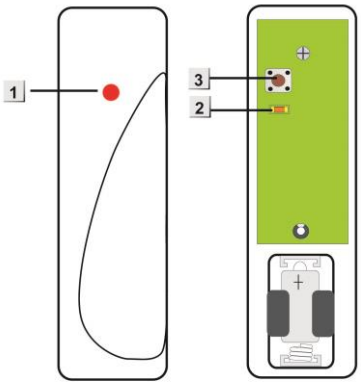
- **Jumper activated (delivery status)**
  If the camera detects further motions after a motion detection alarm, it will raise another alarm and take a new picture at intervals of approx. 20 seconds.
- **Jumper deactivated**
  After each motion detection, the camera goes into a “sleep” mode to save energy. If another motion is detected during this time, the “Sleep mode timer” extends by another minute.

Note:

- The horizontal view angle of the PIR network camera is 110°.
- You cannot adjust the sensitivity of the motion detection.
- The flash (1) is activated only with motion detection in the dark.
- The PIR network camera is **not** compatible with the wireless repeater.
- A maximum of six PIR network cameras can be integrated in the XT1 control unit.

Temperature sensor

The LUPUSEC-XT temperature sensor measures the temperature at the place of installation and transmits any change directly to the control unit every 2 minutes.



Product description:

1. Temperature probe
2. Internal control LED
3. Test button

Put the temperature sensor into operation

1. Unscrew the screw at the sensor bottom and open the housing.
2. Start the control unit's configuration menu and open the menu Sensors → Add. Click Start.
3. Press the Test button of the temperature sensor for approx. 15 to 20 seconds.
4. After a few seconds, the control unit menu should list the temperature sensor.
5. If the sensor is not recognized, restart at step 2.
6. Add the temperature sensor and assign a name.

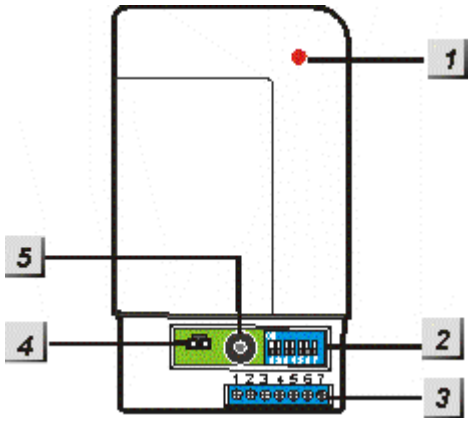
Battery:
The temperature sensor requires a 1/2 AA, 3 V lithium battery. The average battery life is one year minimum. The sensor will inform the control unit in case of a battery running low.

Note:

- The temperature sensor operates within the 2.4 GHz range and is thus prone to interference with WLAN and other radio signal within this frequency range.
- The temperature sensor is **not** compatible with the wireless repeater.
- The operating temperature is between -10 °C and +50 °C.

Wireless relay

Product description:



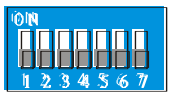
1. Control LED
2. Function switch
3. Terminal clamps
4. 9 V jumper
5. Buzzer

Scope of delivery:

1 x 9 V DC power supply unit
2 x Screws and dowels
1 x Attachment strip
1 x Data sheet / instructions
1 x Wireless relay manual

Put the wireless relay into operation

1. Open the bottom of the wireless relay.
2. Connect the supplied power supply unit (9 V DC) to the wireless relay.
3. A blue switch bay with altogether seven switches is located on the right side. By default, they are all set to OFF (down).



4. The following table lists the functions of the switches:

SW1		**Mode to add the relay to the control unit**
OFF		Off
ON		On
SW2		*Not occupied*
SW3	**SW4**	**Relay functions**
ON	ON	ON with alarm until deactivated manually
ON	OFF	ON for 3 minutes with alarm or until deactivated manually
OFF	OFF	ON when arming/OFF when disarming
SW5	**SW6**	**Alerting method**
ON	ON	Perimeter alarm (burglary alarm)
OFF	ON	ON with fire alarm
ON	OFF	ON with water alarm
OFF	OFF	ON with all alarms
SW7	ON	Factory reset

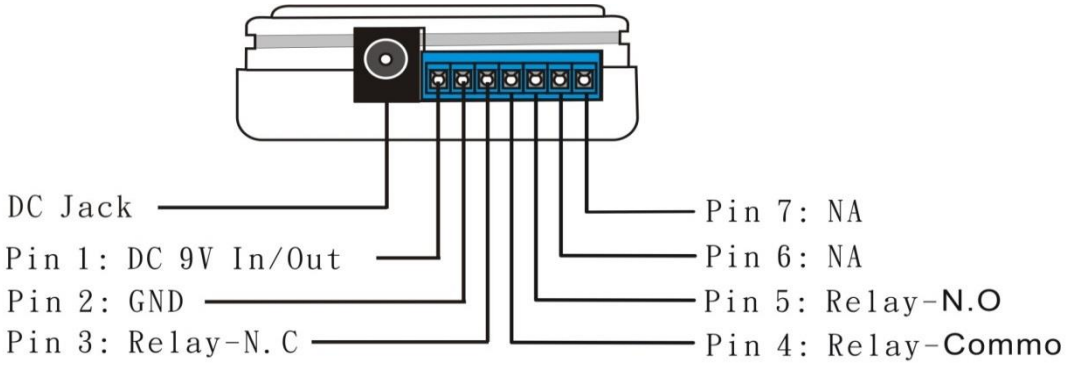
5. To put the wireless relay into operation, set SW1 to ON. The control lamp of the wireless relay lights up briefly for confirmation.
6. Start the control unit's configuration page, open the menu "Sensors" → "Devices" and click the item "Add/apply device".
7. The control unit should recognize the wireless relay and confirm this with a long signal tone. If not, repeat step 5.

8. Set SW1 of the wireless relay back to OFF. The LED of the wireless relay should light up every second.

Note:

- None of the menus of the XT1 control unit lists the wireless relay; it is not even a sensor, as it cannot trigger an alarm. You can verify the successful integration, if the wireless relay clicks when the control unit is armed (SW 3 + 4 off).
- Please note that the wireless relay acts like an external siren. If the siren is deactivated, then the wireless relay is too (see chapter “Siren”)!

Seven screw terminals are located on the bottom of the relay. The following figure shows their occupation:



Pin 1 + 2 supply a constant 9 V DC output current. Pin 1 is the + pole, pin 2 the - pole
Pin 3: Normally closed (NC)
Pin 4: Common (C)
Pin 5: Normally open (NO)

Examples:
If you want to activate a device in case of alarm (depending on switch state 3+4) with 9 V power, it must be connected to pin 2 (GND) and pin 5 (NO). If you want to use only the dry contact in case of alarm (relay circuit), connect the device to pin 4(C) + 5 (NO).

If you want to always use 9 V output voltage, except for a relay circuit, use pin 2 (GND) and pin 3 (NC). If you want to always use a dry contact except in case of alarm (relay circuit), connect pin 3 (NC) + 4 (C).

If you remove the 9 V jumper, only the dry contact can be used or the constant output voltage can be tapped from pin 1 + 2. The combination of pin 2 and 5 or 2 and 3 is not possible anymore.

Output capacitance:
The relay has a contact capacitance from 1 A 30 VDC to 1 A 120 VAC
Maximally 300 mA are available for the 9 VDC output.

Magnetic locking device

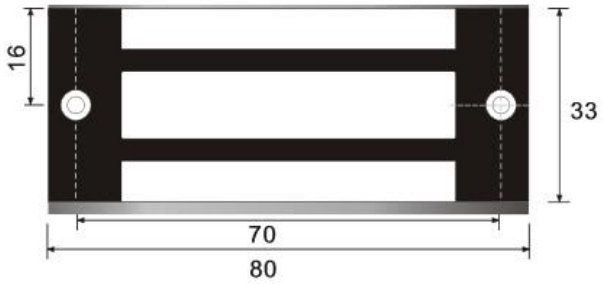
Product description:

The magnetic locking device is used to lock doors magnetically, mainly to prevent false alarms triggered by opening the door before the alarm system is disarmed. You can unlock the magnetic locking device with an effort of 60 kg.

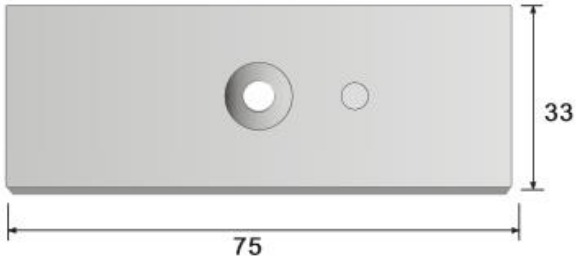
The magnetic locking device works together with the **wireless relay** and can be connected to the alarm system via the wireless relay (which is included in the scope of delivery). It is supplied with electrical power by a 12 V 1 A power supply unit connected to the wireless relay. The locking device must be connected to the wireless relay to be supplied with power. Connect the black cable to pin 2 (GND) and the red cable to pin 5 (relay - NO). Depending on the switch setting of the wireless relay (see manual of wireless relay), the wireless relay switches at different times. The DIP switches SW3+4 are deactivated by default, so that the locking device is activated, when the alarm system is armed, and deactivated, when the alarm system is disarmed. Therefore, you can pass through the door with a locking device installed only, if the alarm system is disarmed.

Dimensions:

Magnetic locking device

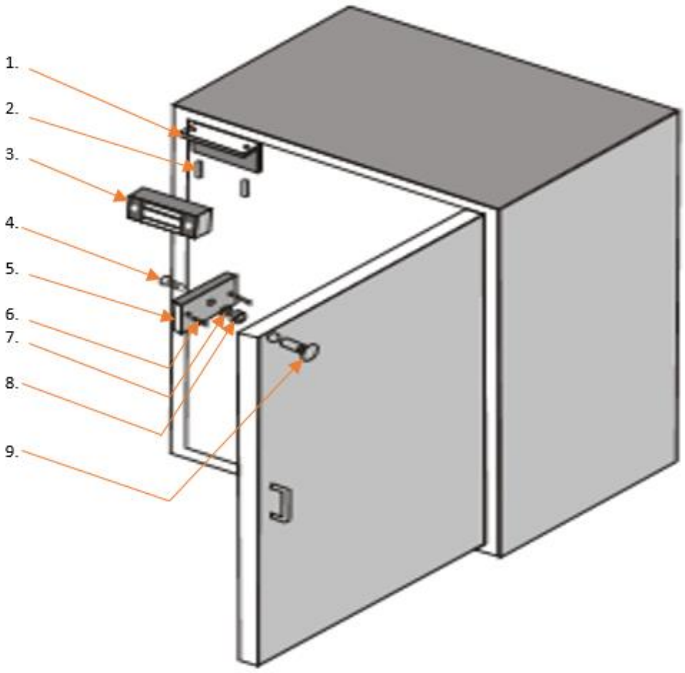


Metal plate



Install the magnetic locking device to the door and put it into operation

Installation to door frame:



1. Bracket for magnetic lock
2. 2.5 cm screw
3. Magnetic lock
4. Allen screw (0.5 cm)
5. Metal plate
6. Metal tube (horizontal fixing)
7. Washer (metal)
8. Washer (rubber)
9. Pinch screw

Installation of metal place to door leaf:
We recommend installing the metal plate (5.) to the top of the door leaf opposite the door hinge. Fix the drilling template to the inside of the door. You need a 0.3 cm and a 0.57 cm drill to pre-drill the holes for the metal plate bracket. Use the 5.7 mm drill to drill the middle hole in the template through the door and machine away an indentation with a depth of 2.4 cm and a diameter of 0.9 cm Ø for the pinch screw (9.) on the opposite side. The 4 mm holes on the outside are intended to fix the metal plate horizontally. Before you attach the metal plate, you need to insert the metal tubes (6.) into the metal plate (5.), using pincers. Push the Allen screw with countersunk head (4.) through the metal plate (5.) and then through the two washers (7. + 8.). Insert the Allen screw and the metal tubes in the appropriate holes; insert the pinch screw (9.) in the indentation through the back of the door. Screw the Allen screw into the pinch screw to fix the metal plate at the door.

Installation of bracket to door frame:
For the installation, at first remove the pre-assembled bracket (1.) from the magnetic lock by unscrewing the two Allen screws at the front of the magnetic lock. Then fix the bracket at the doorframe in parallel to the door leaf, using the two smaller countersunk screws. Make sure that the magnetic locking device is flush with the metal plate (5.) after the installation, by lifting the bracket and the magnetic lock to the door before you fix it. Finally, reassemble the magnetic lock and the assembled bracket, using the Allen screws.

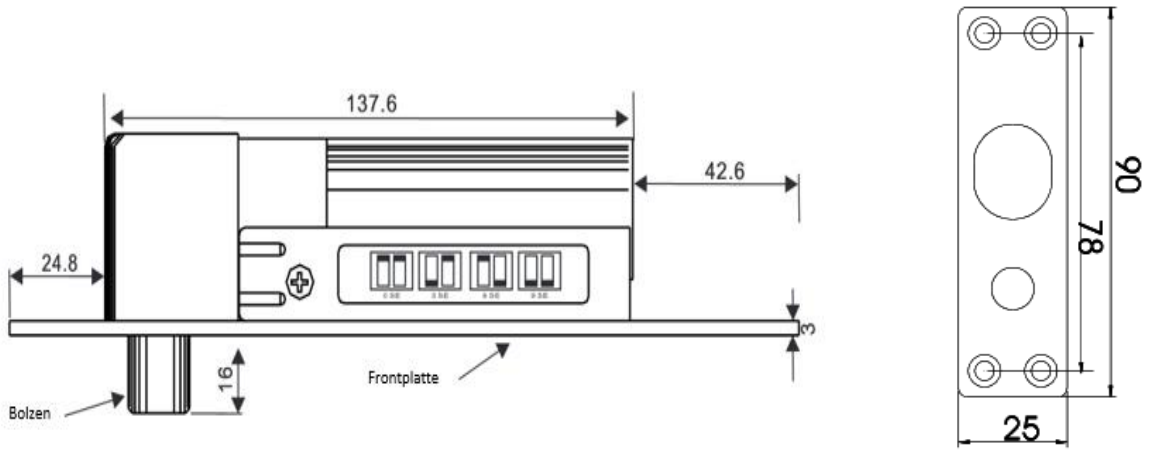
Mechanical locking device

Product description:

The magnetic locking device is used to lock doors mechanically with a bolt to prevent accidentally entering of armed safety areas in connection with a burglary alarm system or to deny access to unauthorized persons in access controls. The mechanical locking device this is part of a triggering mechanism to fulfil the inevitability. The locking device locks only after the door was closed.

The mechanical locking device works together with the **wireless relay** and can be connected to the alarm system via the wireless relay (which is included in the scope of delivery). It is supplied with electrical power by a 12 V 1 A power supply unit connected to the wireless relay. The locking device must be connected to the wireless relay to be supplied with power. Connect the black cable to pin 2 (GND) and the red cable to pin 5 (relay - NO). The mechanical lock can extend only, if the magnetic plate is fixed to the opposite side for safety reasons. Depending on the switch setting of the wireless relay (see manual of wireless relay), the wireless relay switches at different times. The DIP switches SW3+4 are deactivated by default, so that the locking device is activated, when the alarm system is armed, and deactivated, when the alarm system is disarmed. Therefore, you can pass through the door with a locking device installed only, if the alarm system is disarmed.

Dimensions:



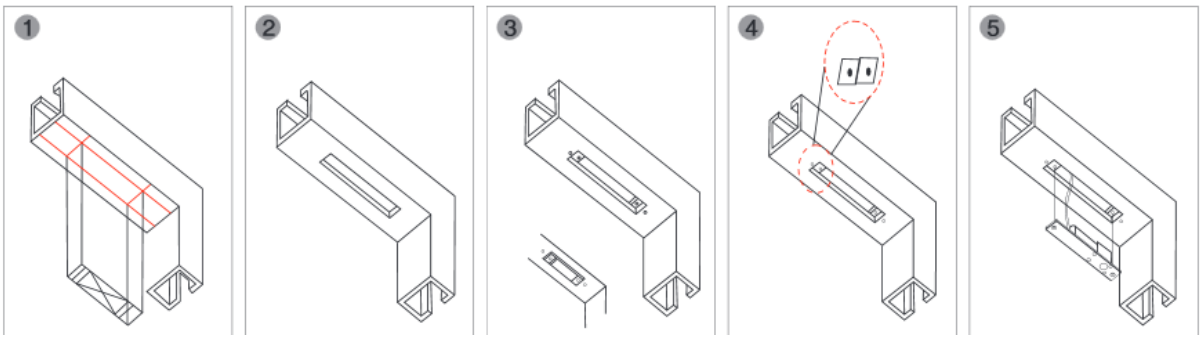
Install the mechanical locking device to the door and put it into operation

Installation to doorframe (without bracket):

Figure 1

1. Locking device bolt
2. Magnetic plate

Figure 2



As shown in the assembly figures 1 and 2, the locking device must be sunk into the frame (**without bracket**). This is usually possible with wooden frames only. It is essential that the door reaches at least up to half of the doorframe and the magnetic plate is installed in parallel to the locking device (figure 1). Finally, you need to fix the magnetic plate at the door and drill the hole (depth 1.6 cm; width 1.4 cm Ø) for the bolt.

Installation with bracket:

In most of the cases, the mechanical locking device is mounted using a bracket.

Figure 3

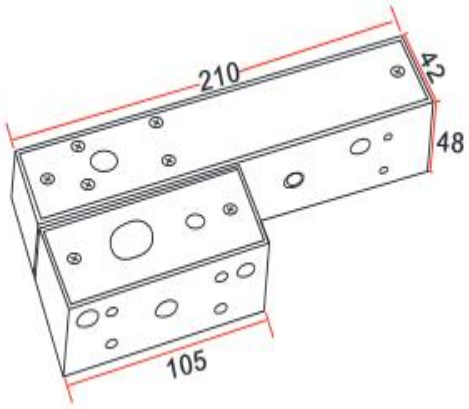
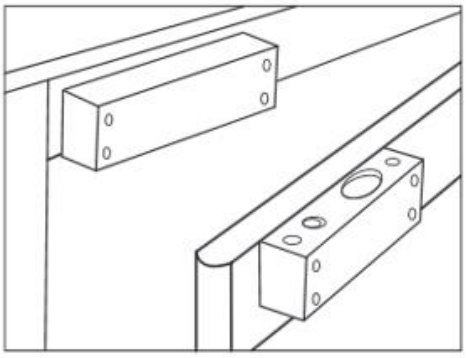


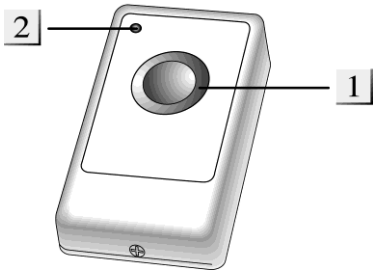
Figure 4



Install the brackets as far away as possible from the door hinge (see figure 4) to ensure the maximum stability of the brackets. It does not matter, whether you install the bracket on top or to the side of the door. To mount the housing to the door, unscrew the two Phillips screws at the end of the bracket beforehand. Then you can push the bracket cover aside and fix the bracket at the door with screws. After having tightened the bracket, you can reinstall the cover and fix it with screws. The locking device is inserted in the bigger of the two brackets and fixed; the counterpart with magnet is inserted in the smaller one. Before you mount the bolt-locking device to the bracket, you have to decide which of the two cable outlets you want to use.

Panic button

Product description:



1. **Panic button**
   If this button is pressed for at least 3 seconds, the control unit will trigger an alarm regardless of which state the alarm system is in (Arm / Disarm / Home).

   If this button is pressed for at least 8 seconds, the panic alarm stops.

2. **TX LED indicator**
   Briefly lights up upon signal transmission.

Battery:

The panic button requires a 3 V 240 mAh lithium button cell. The average battery life is approx. three years. The control unit will inform you in time about the battery running low.

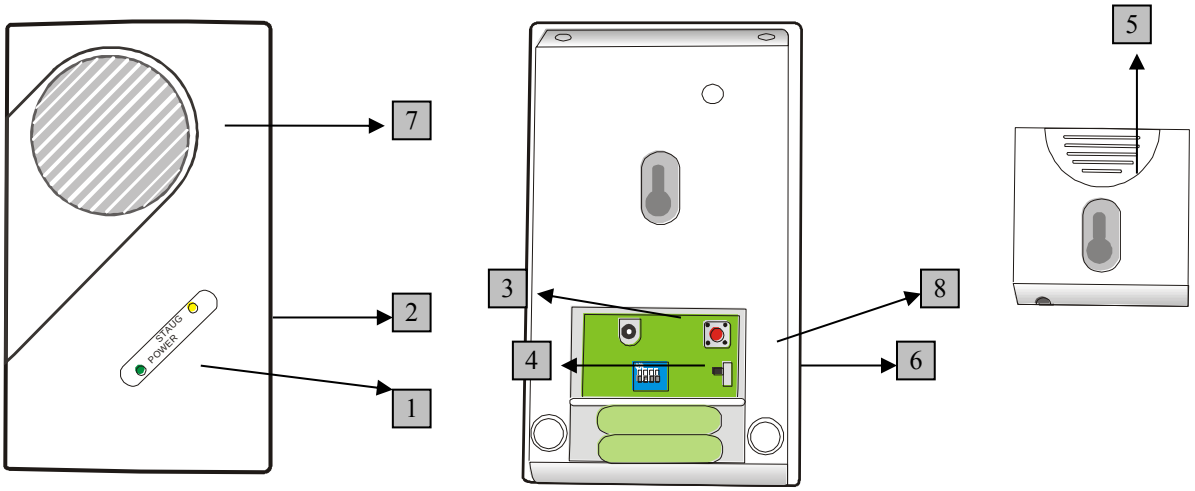
Put the panic button into operation

1. Unscrew the screw at the bottom and open the housing.
2. Insert the battery with the flat side up.
3. Close the housing.
4. Open the configuration page of the control unit, open the menu “Sensors” → “Add” and click Start.
5. Press the red panic (test) button.
6. The configuration page of the control unit should list the panic button.
7. Add the panic button.
8. You can test the signal strength in the Range menu. For that purpose, go to the intended place of installation, press Range test → Start in the control unit menu Sensors → Range and then press the Test button of the panic button. The higher the indicated number the better the reception (1-9).

Wireless repeater

You can connect a maximum of 20 sensors to the LUPUSEC XT1. If the range of one or more sensors is insufficient, you can increase this range with the wireless repeater. You can almost double the transmission range with a repeater, because the sensors are sending their signals first to the repeater and then the repeater relays these signals to the control unit. The wireless repeater is not a sensor and therefore not listed in the sensor list.

The repeater works on the 868.6625 MHz frequency and can amplify only sensors within this frequency range. The repeater does not support the PIR network camera, temperature sensors, wireless sockets, and in-wall relays.



1. Green LED: status indicator
   - On = Standby
   - Off = Off
   - Flashing = low battery
2. Red LED: signal transmission
   - On = A signal is transmitted or received
   - Flashing = incorrect switch setting
3. 9 V DC 500 mA power supply connection
4. Cover
5. Mount
6. Battery switch ON/OFF
7. Buzzer
8. Delete memory button

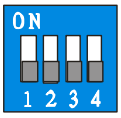
***Note*:**
We strongly recommend installing the repeater at a minimum distance of 20 meters from the control unit to avoid signal interference.

Battery:

The repeater has a rechargeable internal Ni-MH 600 mAH 4.8 V battery, which works as an emergency power back up for up to 30 hours in case of power failure. In this case, the green LED remains on. The battery requires approx. 48 hours to load. A signal is sent to control unit if the battery runs low.

Connect the wireless repeater to the control unit

1. Connect the supplied power supply unit. The green LED will light up and the repeater emits a long beep.
2. Set SW1 to ON:



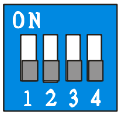
3. Start the configuration page of the control unit, open the menu **Sensors** → **Devices** and click the item **"Add/Apply device"**.
4. The repeater sounds a signal tone once and the red LED will light up for one second, thus confirming the successful activation of the repeater.
5. Set SW1 back to the OFF position.

Note:

- The repeater is connected to the control unit, but there is no entry in the control unit.
- To test whether the repeater is already connected to the control unit, repeat steps 1 to 4. The repeater emits two short signal tones to confirm the successful connection.

Connect sensors to the repeater:

1. Connect the supplied power supply unit. The green LED will light up and the repeater emits a long beep.
2. Set the SW1 switch to ON:



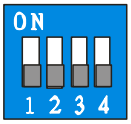
3. Activate the test (learn) mode of the respective sensor by pressing the test button as specified in the sensor manual.
4. The repeater sounds a long signal tone and the red LED will light up for one second. Repeat this process for all sensors to be amplified. (If a sensor was already added, the repeater acknowledges this with two short signals.)
5. Set SW1 back to the OFF position.

Additionally connect sensor to the control unit:

1. If the sensor (with the weak signal strength) was already learned to the control unit, you do not have to repeat this process. The repeater already amplifies the sensor signal, which can be verified by means of a range test.
2. Otherwise, proceed as usual via the menu **Sensors** → **Add sensors** → **Start** to add a sensor to the control unit, after having connected the sensor to the repeater. For detailed instructions, please refer to the respective sensor manual.

Manual test of connection between sensor and repeater:

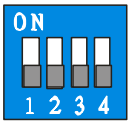
1. Use this function to test whether a sensor added to the repeater is already or still connected to the repeater.
2. Set SW2 to ON.



3. Press the test (learn) button of the sensor, which was added already to the repeater. If the connection to the repeater is available, the repeater will sound a long signal tone and the red LED lights up for one second.
4. After having tested the connection of all required sensors to the repeater, set SW2 back to OFF.

Factory settings:

1. Set SW3 to ON



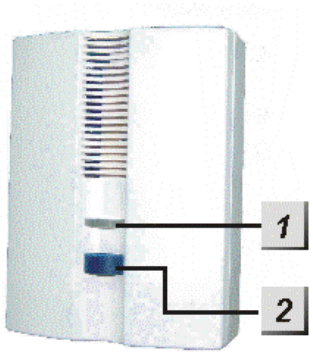
2. Press and keep pressed the (red) “Delete memory button” for at least 5 seconds. A long signal tone sounds. This deletes all sensors and their activation/connection to the XT1 control unit!
3. Set SW3 back to OFF.

Note:

- You can**not** use the following sensors/devices with the wireless repeater: PSS devices (wireless sockets, in-wall relays), PIR network camera, temperature sensors, wireless relays, wireless repeaters.
- As long as a sensor learned to the repeater is able to transmit its signal strength directly to the control unit, this (weaker) signal is shown in the web interface. You can test the proper function of the sensor by increasing the sensor’s distance to the control unit and performing a range test. If the signal strength now increases, the sensor transmits via the repeater. In case of an alarm, the sensor will reach the control unit one way or the other.

CO detector

Product description:



1. **Two colour LED**
   - Flashes yellow: low battery
   - 2 x red + 2 beeps: transmission
   - Flashes red: Alarm

2. **Test button**
   - Activates the test and range mode
   - Deactivate alarm

Note:

- The LUPUSEC CO detector reports exclusively the escape of carbon monoxide.
- We recommend installing the CO detector at a height of approx. 1.5 meters, as carbon monoxide weighs about as much as air and is evenly distributed in the room.

Battery:

The CO detector requires three AA batteries 1.5 V. The average battery life is two years. The CO detector will inform the control unit, if the battery is running low about two months before they are empty.

Put the CO detector into operation

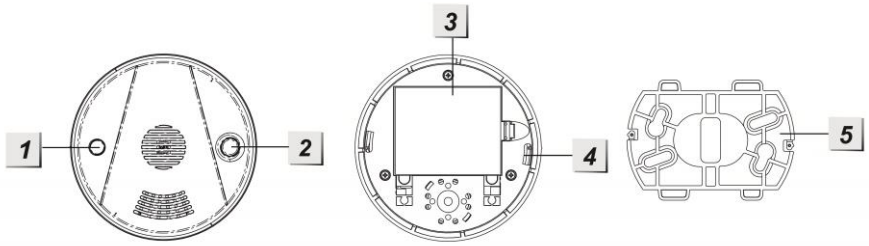
To put the CO detector into operation, proceed as follows:

1. Insert the supplied batteries.
2. After their insertion, the CO detector emits two short beeps and the LED lights up once in red.
3. Close the housing.
4. Open the configuration page of the control unit, open the menu “Sensors” → “Add” and click Start.
5. Press the test button of the CO detector for about one second.
6. The configuration page of the control unit should list the CO detector.
7. Add the CO detector.
8. You can test the signal strength in the Range menu. For that purpose, go to the intended place of installation, press Range test → Start in the control unit menu Sensors → Range and then press the Test button of the CO detector. The higher the indicated number the better the reception (1-9).

Heat detector

Product description:

The heat detector is equipped with two internal sensors, which on the one hand measure the velocity of the temperature increase and on the other hand the actual ambient temperature. If the temperature rises at more than 8.3 °C per minute or the ambient temperature exceeds 57.3 °C, an alarm is triggered. The heat detector is usually installed in kitchens, as customary smoke detectors often cause false alarms due to the formation of smoke.



1. **Red LED**
   - On, if batteries are low or a defect is available
   - On for 2 seconds: alarm is transmitted
   - Flashes every 30 seconds: low battery
2. **Test button**
   - Activates the test and range mode
   - Deactivate alarm
3. **Battery compartment**
4. **Installation notch**
5. **Retaining fixture**

Battery:

The heat detector requires three AA batteries 1.5 V. The average battery life is three years. The heat detector will inform the control unit, if the battery is running low about two months before they are empty.

Put the heat detector into operation

To put the heat detector into operation, proceed as follows:

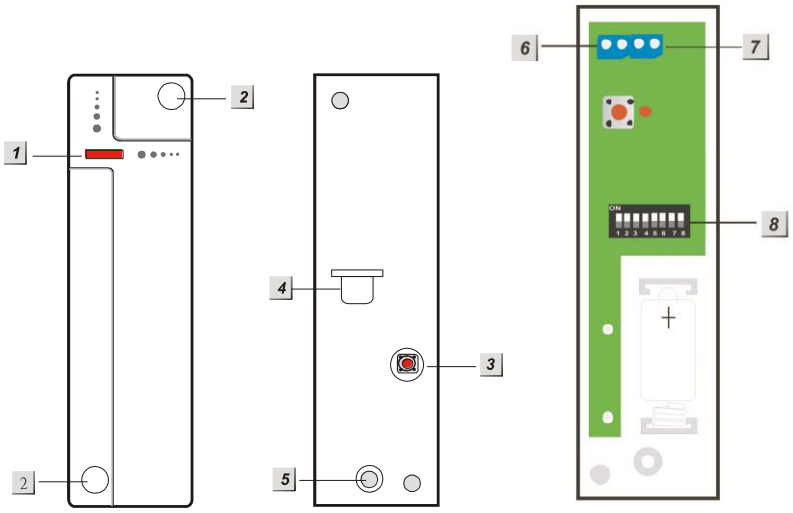
1. Insert the supplied batteries.
2. After their insertion, the heat detector emits two short beeps and the LED lights up once in red.
3. Close the housing.
4. Open the configuration page of the control unit, open the menu “Sensors” → “Add” and click Start.
5. Press the test button of the heat detector for about one second.
6. The configuration page of the control unit should list the heat detector.
7. Add the heat detector.

8. You can test the signal strength in the Range menu. For that purpose, go to the intended place of installation, press Range test → Start in the control unit menu Sensors → Range and then press the Test button of the heat detector. The higher the indicated number the better the reception (1-9).

Wireless sensor input

Product description:

The wireless sensor input is a module with two potential-free switch contacts connected wirelessly to the control unit. Closing of the contacts triggers an alarm. It is therefore suitable to be used for already available window/door contacts in a wired system or additional sensors by third-party providers (access control, fingerprint, light barrier, door bolt contact etc.).



1. LED indicator and test button
2. Mounting holes
3. Tamper contact
4. Battery breaker
5. Screw to open housing
6. Potential-free switch contacts (2)
7. Potential-free switch contacts (2) for shutters
8. DIP switches precision adjustment

LED indicator:

The LED lights up with every signal transmission and if the tamper contact is triggered.

Battery:

The wireless sensor input requires a 1/2 AA 3.6 V lithium battery. The average battery life is 2.8 years. The control unit is informed if the battery is running low.

DIP switch functions

Use the switches 1-4 to assign a function to the wireless sensor input and thus define whether it is to be listed in the control unit as door contact, motion detector, smoke detector, or panic button. Never activate (ON) more than one of the four switches simultaneously. Afterwards, add the sensor to the control unit.

SW1	Door contact (DC-11C2)
ON	Activated (default)
OFF	Deactivated
SW2	Motion detector
ON	Activated
OFF	deactivated (default)
SW3	Smoke detector
ON	Activated
OFF	deactivated (default)
SW4	Panic button
ON	Activated
OFF	Deactivated (default)
SW5	Status signal
ON	Activated (default for 868NF))
OFF	Deactivated (default for 868WF)
SW6	CON4 NO/NC
ON	Normally open (NO)
OFF	Normally closed (NC default)
SW	Shutter
ON	5 pulse / 10 sec
OFF	3 pulse / 10 sec (default)
SW8	Reserved

Status signal

If SW5 is set to ON, then the wireless sensor input transmits a status signal to the control unit every 30 to 50 minutes. If the control unit does not receive the signal, it will alert.

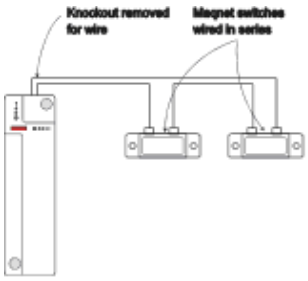
Put the wireless sensor input into operation

To put the wireless sensor input into operation, proceed as follows:

1. Insert the supplied batteries.
2. Define the function with switch SW 1-4.
3. Connect the contacts to the required potential-free switch contact.
4. Close the housing.
5. Open the configuration page of the control unit, open the menu “Sensors” → “Add” and click Start.
6. Press the test button of the wireless sensor input for about one second.
7. The configuration page of the control unit should list the wireless sensor input.
8. Add the wireless sensor input.
9. You can test the signal strength in the Range menu. For that purpose, go to the intended place of installation, press Range test → Start in the control unit menu Sensors → Range and then press the Test button of the wireless sensor input. The higher the indicated number the better the reception (1-9).

Example: How to connect a wireless sensor input to available wired detectors:

1. Open the housing of the wireless sensor input.
2. The plastic material of the housing is thinner on top. This is where you can break through to insert the cables in the housing.
3. Connect the cables to terminal 6 of the wireless sensor input. Depending on the function (SW 6), set the detector to either “Normally open” or “Normally closed”.
4. If the circuit is closed or opened (depending on SW6 setting), this is reported to the control unit.



Shutter function (SW7)

If you connect a two-wire cable to terminal 7 (see figure), the sensor will transmit an alarm signal only, if it receives 3 or 5 pulses (SW7) within 10 seconds (example: shutter is forced open).

Wireless lock contact

Product description:

The wireless lock contact works together with the **wireless sensor input**. It reports whether a door is locked or not. If the contact is opened by unlocking the door (the door bolt does not push in the pin of the lock contact anymore), an alarm or an entry delay can be triggered.

Install the wireless lock contact to the door and put it into operation

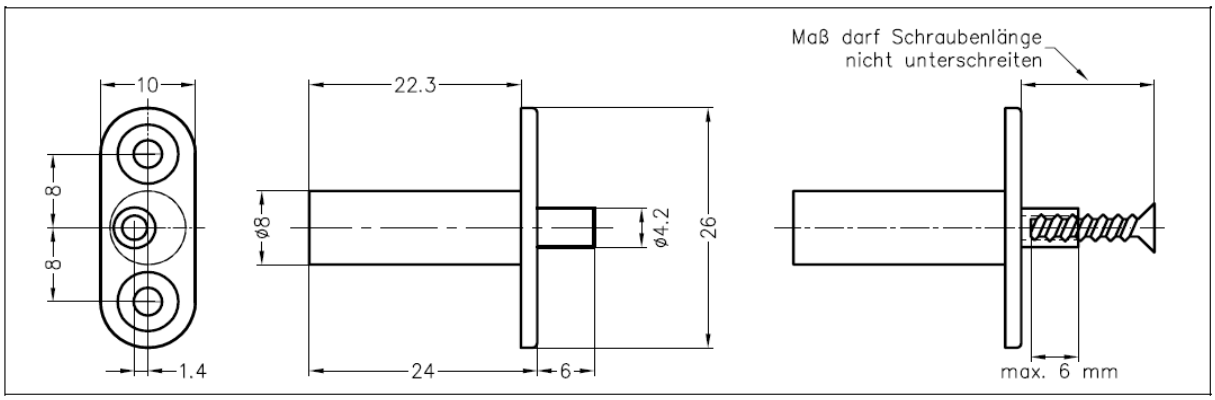
1. At first, drill a 25 mm deep hole into the latch/batch of the lock using an 8 mm drill. If you want to route the cable lock contact back through this hole, you need either to use a larger drill or execute the hole in a slightly eccentric way.

2. Two options are available to fasten the lock contact:
   a. Screw the lock contact by means of the clamping flange and the supplied (**pointed**) countersunk screws 2.9 x 13 onto wood, plastic, or metal (pre-drill: 2 mm).
   b. Provided that the hole to support the lock contact is executed as a blind bore, the lock contact can be fixed with silicone or similar in the hole.

3. If the latch does not press the pin of the lock contact to the acting point, you can extend it by means of the two provided adjusting screws (2.9 x 9.5 und 2.9 x 13 – **not pointed**). Using an adjusting screw does not affect the actuating path, which is always 6 mm.
   You need to fix the adjusting screw afterwards by means of a bolt adhesive (Loctite or similar).

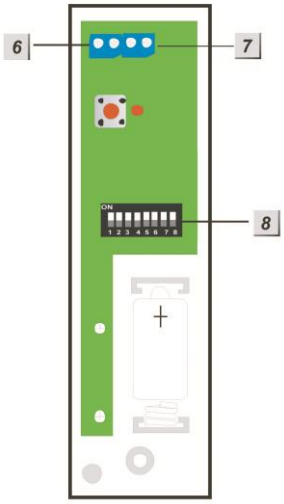
Note:

- Do not insert the adjusting screw into the actuating pin by more than 6 mm (see figure)!
- If the lock contact is to be used for sliding doors (usually hook bolts are used), you can also install it vertically.



To put the wireless lock contact into operation, proceed as follows:

1. Insert the supplied battery.
2. Set the **DIP switch 1 to ON** as described.
3. Connect the contacts of the lock contact cable to **terminal 6**.
4. Close the housing.
5. Open the configuration page of the control unit, open the menu “Sensors” → “Add” and click Start.
6. Press the test button of the wireless lock contact for about one second.
7. The configuration page of the control unit should list the wireless lock contact.
8. Add the wireless lock contact.
9. You can test the signal strength in the Range menu. For that purpose, go to the intended place of installation, press Range test → Start in the control unit menu Sensors → Range and then press the Test button of the wireless lock contact. The higher the indicated number the better the reception (1-9).
10. Open the sensor list, find the lock contact and click on “Edit”.

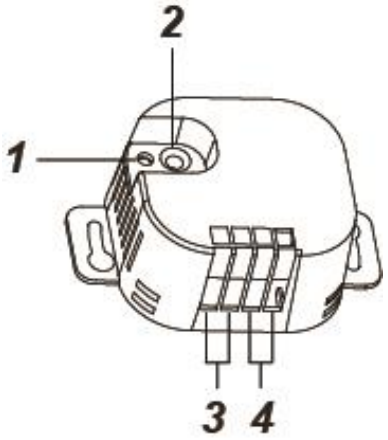


Note:
The XT1 control unit can exclusively show the status and trigger an alarm/exit delay when opening. Only the XT2 control unit is able to arm/disarm the system when the door is locked/unlocked.

In-wall relay with electric meter

1. **LED indicator**
   On: relay on
   Off: relay off
   Flashes twice: signal transmission

2. **Test button**
   Keep the button pressed for 10 seconds to send the learn signal to the control unit. Pressing the button briefly activates or deactivates the relay.



3. **230 V input**
4. **230 V output**

Caution:
Only a certified electrician or electrically instructed person knowing and understanding current and the inherent hazards is allowed to perform the installation. Improper handling may cause electric shock!

Put the in-wall relay with electric meter into operation

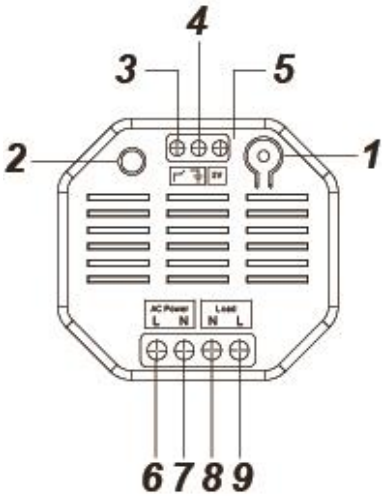
1. Connect the 230 V supply line (brown = L and blue = N) to the input (3). Grounding (green-yellow) is not required.
2. Connect the 230 V power cable (brown = L and blue = N) to the output (4)
3. Open the control unit menu → Sensors → Add and click Start.
4. Keep the Test button (2) pressed for approx. 10 seconds. The relay transmits the learn code and the LED flashes twice after about 5-6 seconds.
5. Add the in-wall relay to the sensor list.

Range test:
1. Open the control unit menu → Sensors → Range and press Start.
2. Press the Test button of the relay.
3. The sensor and the signal strength should be indicated.

Note:
- The relay can be activated and deactivated manually on the website.
- You can save dynamic or scheduled programming in the Automation menu.
- After a power failure, the in-wall relay returns to the last state before the power failure.
- The in-wall relay is **incompatible** with the wireless repeater and cannot be saved in the backup configuration file.
- The sensor list indicates the power consumption.

In-wall relay without electric meter

1. **Test button**
   - Keep the button pressed for 10 seconds to send the learn signal to the control unit.
   - Pressing the button briefly activates or deactivates the relay.
2. **LED indicator**
   a. On: relay on
   b. Off: relay off
   c. Flashes twice: signal transmission
3. **Switch input**
4. **Switch input** (3 V reference)
5. **3 V output** - direct current (DC)
6. **230 V AC input**
   Phase (brown - L)
7. **230 V AC input**
   Neutral conductor (blue - N)
8. **230 V AC output**
   Phase (brown - L)
9. **230 V AC output**
   Neutral conductor (blue - N)

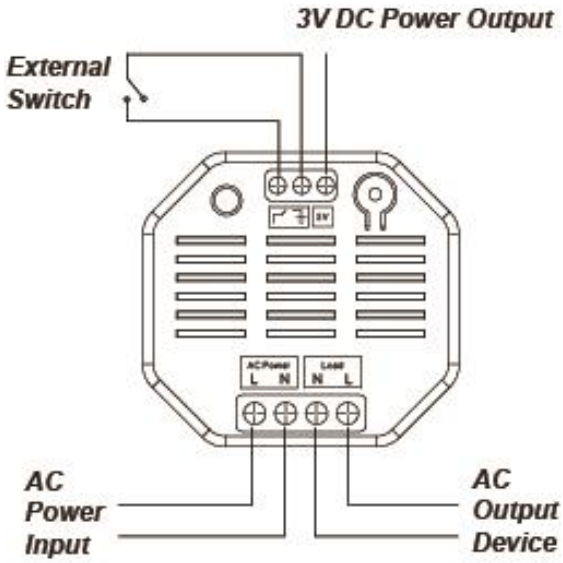


Caution:
Only a certified electrician or electrically instructed person knowing and understanding current and the inherent hazards is allowed to perform the installation.

Put the in-wall relay without electric meter into operation

1. Interrupt the electrical power supply during the installation to prevent short circuits.
2. Connect the 230 V supply line to the input (6 + 7) and the 230 V end device cable to the output (8 + 9).
3. To be able to actuate the relay externally, connect an additional switch to the switch input (3 + 4). If the external switch requires a 3 V direct current connection, connect it to the 3 V direct current output (5) of the in-wall relay.
4. Open the control unit menu → Sensors → Add and click Start.
5. Keep the Test button (2) pressed for approx. 10 seconds. The relay transmits the learn code and the LED flashes twice.
6. As soon as the control unit received the learn code, the sensor list indicates the sensor. Add the in-wall relay to the control unit with “Add”.

Cable connection diagram:



Range test:

1. Open the control unit menu → Sensors → Range and press Start.
2. Press the Test button of the in-wall relay.
3. The sensor and the signal strength should be indicated.

External switch:

- You can use an external switch for easier handling.
- The operation of the external switch is similar to the direct operation of the Test button (activates or deactivates the relay).

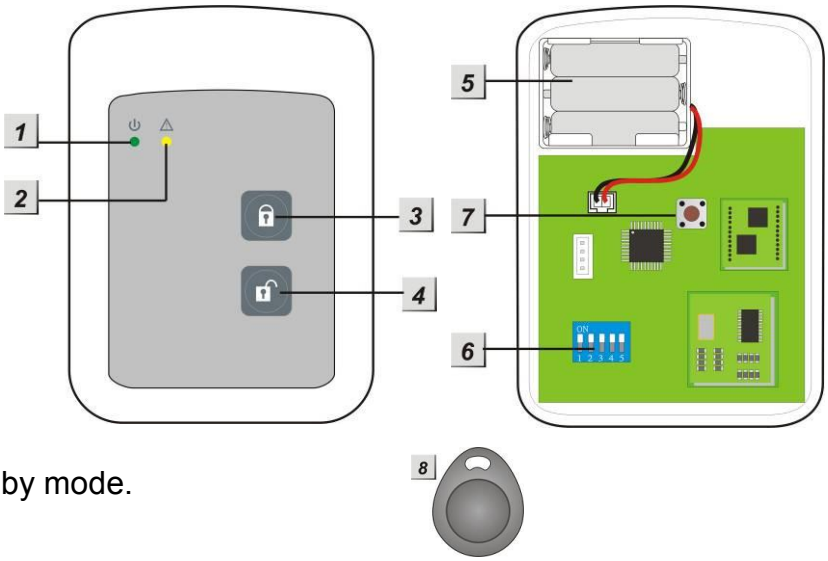
Note:

- The relay can be activated and deactivated manually on the website.
- You can save dynamic or scheduled programming in the Automation menu.
- The maximum load at 110 V is 1100 W and 10 A. Do not exceed these limits!
- The maximum load at 230 V is 2300 W and 10 A. Do not exceed these limits!
- After a power failure, the in-wall relay returns to the last state before the power failure.
- The in-wall relay is **incompatible** with the wireless repeater and cannot be saved in the backup configuration file.
- The in-wall relay is a new edition (version 2, available since the end of 2014).

Tag reader

Product description:

1. Power LED (green)
2. Status LED (red)
3. Arm button
4. Disarm button
5. Batteries
6. Function switches
7. Tamper contact
8. Tag (watertight)



LED indicators:
Both LEDs are off in the stand-by mode.

- **Power LED (green):**
  - If a button is pressed, the Power LED lights up for 5 seconds to indicate the operational readiness of the tag reader.
  - The Power LED flashes instead of being on constantly to indicate the battery running low.
- **Status LED (red):**
  - Flashes fast upon signal transmission.
  - Is permanently on in tag learn mode.
  - Flashes in installation mode.

Battery:

- The tag reader requires three AAA 1.5 V alkaline batteries. The average battery life with two activations per day is approx. four years.
- The tag reader indicates the low battery status by the Power LED flashing. The control unit is additionally informed about the battery status.

Power saving function:

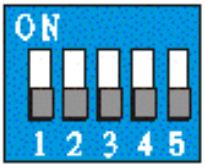
- As long as the tag reader is not used, it does not consume any electric power. Only when a button is pressed is the tag reader activated for 5 seconds.
- The tag reader goes off again automatically after 5 seconds.

Tamper protection:

- The tag reader is protected against being opened in an unauthorized way or being removed from the mounting surface.
- If the tamper contact is triggered, the Power LED lights up and a warning signal sounds. The control unit is informed about the tampering.
- If the control unit is armed, the triggered tamper contact triggers an alarm.
- In learn mode, the tamper contact is deactivated.

Function switches:

If the tag reader housing is open, you will see the function switch block with five switches. These switches are all set to OFF by default.



Switch no.	Position	Description
SW 1	ON	Learn / add mode
	OFF	Normal Operation Standard)
SW 2	ON	Factory setting
	OFF	Normal operation (default)
SW 3	OFF	System setting MUST be **OFF**, as otherwise no function
SW 4	OFF	
SW 5	OFF	Reserved

Put the tag reader into operation

Installation of the tag reader:

1. Install the tag readers indoors only.
2. Remove the front of the tag reader by unscrewing the lower screw.
3. Use both screw holes to mark the drill holes at the wall.
4. Make sure that the tamper contact of the tag reader lies flat on the ground.
5. Tighten the tag reader.
6. Insert the batteries. The Power LED lights up for a few seconds and a signal sounds.

Add the tag reader to the control unit:

1. Open the control unit menu and then the sub-menu Sensors → Add and click Start.
2. Start the installation mode by pressing the Arm or Disarm button and then promptly setting switch 1 to ON. The Status LED starts flashing and one long signal tone followed by two short signal tones sound.
3. Press the Disarm button of the tag reader.
4. The control unit indicates the tag reader as “Keypad” (XT1) or “Tag reader” (XT2).
5. Add the tag reader to the control unit.
6. Exit the learn mode of the control unit.
7. Leave the installation mode of the tag reader by setting SW1 to OFF again, which is acknowledged with four short signal tones. Then reinstall the front of the tag reader by tightening the lower screw.

Note:
The installation mode ends automatically after five minutes at the latest. To restart the installation mode, you need to set SW1 to ON again.

Add a tag to the tag reader:

1. Start the installation mode by pressing the Arm or Disarm button and then

promptly setting switch 1 to ON. The Status LED starts flashing and one long signal tone followed by two short signal tones sound.

2. Press the Arm button once to start the tag learn mode. The Status LED lights up for five seconds and one signal tone sounds.
3. During this time, hold a tag in front of the tag reader panel. The Status LED flashes fast three times and two signal tones sound, indicating the successful integration of a tag in the tag reader.
4. If you want to add several tags, hold them one after the other (at intervals of 5 seconds) in front of the tag reader re restart the entire process.
5. Exit the installation mode of the tag reader by setting SW1 back to OFF.

Note:

- With the new tag reader version (available since the beginning of 2015), you can add an unlimited number of tags.
- You can add a tag to an unlimited number of tag readers.
- Only one signal tone indicates that this tag was already added.
- Four signal tones indicate that the maximum tag number (6) is reached.

How to use the tag reader:

After having completed the tag reader installation as described above, you can use the tag reader as follows:

1. Arming/disarming
   Press the Arm or Disarm button once to activate the tag reader.
2. You have five seconds to hold a tag in front of the tag reader. If the tag is recognized within this time, the control unit is armed or disarmed.

Caution:

If there are system errors available in the control unit when the system is armed, repeat the arming process within 10 seconds, as otherwise the system remains disarmed! Alternatively, you can activate the menu item “Forced arming”.

Factory settings:

1. Open the housing. Remove the batteries, and then press any button to discharge the remaining power.
2. Set switch 2 to ON, reinsert the batteries. The tag reader signals the reset (including the added tags) with an audio signal followed by two more signals. The Status LED starts flashing. Set switch 2 to OFF again and close the housing.
3. Delete the tag reader from the sensor list of the control unit.

Two-way motion detector

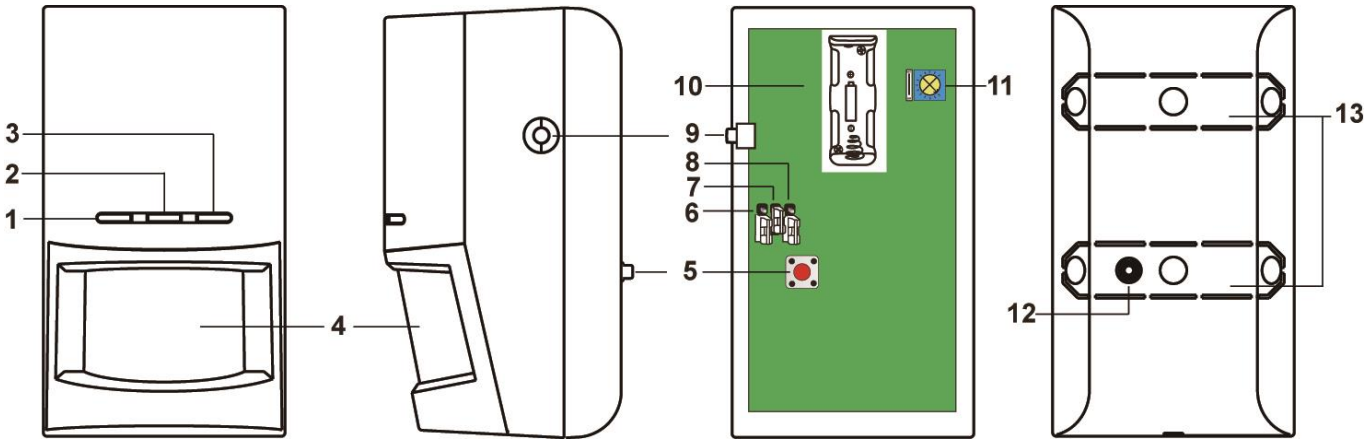
Product description:

The two-way motion detector prevents false alarms caused by the double motion detection – PIR and microwave detection. The control unit triggers alarms only, if both methods detect a motion.

The PIR/microwave motion detector consists of a front a back. The mainboard to adjust various settings/adjustments is located on the front. You can mount the back either to flat surfaces or in corners by means of one of the two provided mounts. Open the sensor by pressing a tool (e.g. a screwdriver) into the plastic notch at the bottom.

Sensor data:

Dimensions (without mount)	6.33 x 11.25 x 6.2 cm
Weight:	141 grams
Operating location:	Exclusively indoors
Operating temperatures:	-10 °C to 45 °C
Humidity:	Maximum 95 % (without condensed water)
Microwave frequency:	10.525 GHz
Alarm system frequency:	868.6375 MHz



1. **IR motion detection LED (green)**
   The LED lights up with every motion detected by the IR sensor in test mode.
2. **Microwave detection LED (blue)**
   The LED lights up with every motion detected by the microwave sensor in test mode.
3. **Transmitter LED (red)**
   Lights up upon signal transmission in test mode.
4. **Sensor**
5. **Tamper contact**
6. **JP 1**
   Jumper 1 is reserved.

7. **Activate/deactivate supervisor Jumper Switch (JP2)**

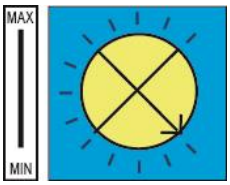
Jumper On
The jumper bridges the two pins.

Jumper Off
The jumper is removed or is on one pin only.

The supervisor mode is deactivated with Jumper 2 set to **ON**.

The supervisor mode is activated with Jumper 2 set to **OFF (default setting)**.

8. **Activate/deactivate microwave test Jumper Switch (JP3)**
   - The PIR/microwave sensor is in microwave test mode with Jumper 3 set to **ON** (see **Microwave test mode below**).
   - The microwave test mode is deactivated with Jumper 3 set to **OFF (default setting)**.
9. **Learn/Test button**
   Press this button to add the PIR/microwave sensor to the control unit or to start the three-minute test mode.
10. **Battery compartment**
    A 3 V Lithium battery is required – model 1 CR123A.
11. **Microwave range button**
    The arrow indicates the set range:



    - Turn the arrow **clockwise** to increase the detection range (maximum 0-15 m)
    - Turn the arrow **counter clockwise** to reduce the detection range (minimum 0-5 m)
    - The default setting is **minimum**.
12. **Tamper contact**
    The tamper contact is pressed against the bump on the back and thus closed.
13. **Installation notch / break-joint**

Standby mode

After every motion detection, the PIR/microwave sensor goes into the standby mode to save energy. Any other motion detection during this time resets the standby timer to one minute.

Supervisor function:

With Jumper 2 activated and the PIR/microwave sensor in normal mode, the supervisor signal is transmitted every 30 to 50 minutes. If the control unit does not receive the supervisor signal from the sensor, this causes the control unit to show an error message “Out of operation”.

Tamper contact

The tamper contact presses onto the mount on the back. With the PIR/microwave motion detector properly mounted, the tamper contact is closed in normal operation. As soon as the tamper contact opens, the sensor transmits the tamper alarm to the control unit and the Transmitter LED lights up.

Break joint

The PIR/microwave sensor has two break joints intended to break upon attempted tampering and to release the tamper alarm.

Motion detection:

- An alarm is transmitted only, if the PIR and the microwave sensor detect a motion.
- With the range button set to maximum, the detection range is about 15 meters, if the motion detector is installed at a height of 1.9 to 2.0 meters (vertical to the wall).
- With the range button set to minimum, the detection range is about 3 to 5 meters, if the motion detector is installed at a height of 1.9 to 2.0 meters (vertical to the wall).

Test mode:

You can set the PIR/microwave motion detector in the test mode by pressing the Learn/test button for a few seconds. The standby mode is disabled while the test mode runs. The respective LED will light up with every motion detected.

Microwave test mode:

To adjust the optimal sensitivity/range of the microwave sensor, you can start the test mode for the microwave detection only. For that purpose, set Jumper 3 (JP3) to ON. With the microwave test mode enabled, the microwave LED lights up for 0.5 seconds upon every motion detected. Any further detection extends the duration by 0.5 seconds.

Battery:

The PIR/microwave motion detector requires a CR123A Lithium battery 3 V.

Note:

If it is required to change the battery, please note that tamper alarm may be triggered (depending on the control unit settings). Remove the empty battery. Press the Learn button twice to make sure that the remaining power is discharged. Then insert the new battery.

Put the PIR/microwave motion detector into operation

1. Open the detector and insert the provided battery.
2. The device starts. This process takes about 30 seconds. Wait until the LEDs stopped flashing and avoid triggering the detector during that time!
3. Open the configuration menu of the control unit and then the sub-menu Sensors → Add. Click Start.
4. Press the Test/learn button of the detector once. The menu should list the PIR/microwave motion detector after a short while. Click Add to complete the learn process.
5. Start the test mode of the control unit to check whether the motion detector at the intended location is within the range.
6. For that purpose, take the motion detector to the intended place of installation and press the Test button of the motion detector. The menu of the control unit

indicates the signal strength. The higher the indicated number the better the reception (1-9).

Installation:
You can install the PIR/ microwave motion detector on flat surfaces as well as in corners:

- **Mounting to flat surface:**
  To mount the detector to a flat surface, use the mount with the swivel ball head. Arrest the mount with the screw on top.

- **Mounting with corner mount:**
  To mount the detector in a corner, use the provided corner mount.

Note:

- The LEDs (on the front) and the single mounting hook (on the back) must point upwards for the assembly.
- First, tighten the respective mount to the intended place of installation.
- Then place the PIR/microwave motion detector on the respective mount. The mounting hooks need to lock in place on the back of the motion detector.
- The horizontal angle of the PIR / microwave motion detector is 110°.
- To enable optimal motion detection, we recommend installing the PIR/microwave motion detector at a height of 1.9 to 2.0 meters with the back vertical to the wall.
- Do not install the motion detector within the detection range of other detectors (e.g. motion detectors with light).
- Do not expose the motion detector to direct sunlight.
- Do not install the motion detector close to heaters or air conditioning devices.
- Unless in test mode, the motion detector is able to detect a motion every three minutes only (irrespective of the control unit status).

Notes:

Notes: