Intruder alarm panel Terxon MX – Installation instructions

Perfect Security for the home and the office

These installation instructions are an important product accessory. They contain important installation and operation information. Bear this in mind if you pass the product on to others. Store these installation instructions in a safe place for future reference.
For a list of contents with page numbers, see page 3.

CE

1 Introduction

Dear Customer,

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

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

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

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

ABUS Security-Center GmbH & Co. KG
86444 Affing
GERMANY
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info@abus-sc.eu

2 Usage in accordance with regulations

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

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

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

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

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

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

3 Contents

UK

UK

4   Precautions

!WARNING!

To avoid fire and injury, please observe the following:

- Securely fasten the device at a dry location in the building.

- Ensure sufficient air circulation for the alarm centre.

- Do not expose the device to temperatures less than -10°C or more than 55°C.

- The device is designed for indoor use only.

- Humidity must not exceed 90% (non-condensed).

- Make sure that no metal objects can be pushed into the equipment from outside.

- Ensure that the voltage is disconnected when performing work on the device.

!ATTENTION!

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

- The alarm centre is supplied with 12V DC power by means of the internal transformer.

- The transformer is connected to the 230VAC building mains by means of a separate, electrically protected line.

- Connection work to the building mains is subject to country-specific regulations.

- A 7Ah rechargeable battery supplies emergency standby power.

- The maximum power consumption of connected components must never exceed 1A.
- Always replace fuses with fuses of the same rating, never higher.

!IMPORTANT INFO!

Burglar alarm panels in general:

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

5 Scope of delivery and accessories required

Scope of delivery

- Intruder alarm panel ("alarm centre")
- LCD operating panel
- Installation Instructions
- Operating instructions

You also need:

Alarm detector

Signal transmitter

12V/7Ah rechargeable battery

Distributor

Cables

Optionally available:

Relay module

8-zone radio expansion unit

8-zone wire expansion

Required tools:

Flat screwdriver (small)

Philips screwdriver

Drill

6mm drill bit

4mm drill bit

6mm screws

4mm screws

Wallplugs, filler, etc.

Soldering iron and solder

Insulation tape or shrink-on tubing

Voltmeter, ohmmeter (or multimeter)

Cable channel

Screw-clamps

6   Notes on connection and extension options

The burglar alarm panel is the basic device of an electronic security system for protecting your property (e.g.: apartment, house, garage, shops, etc.). In combination with other components such as detectors and signal transmitters, it secures the areas to be monitored. The alarm is triggered by unauthorised break-in attempts.

The alarm centre is operated by means of the connected control unit. This enables the alarm centre to be installed at a hidden location. Up to 4 control units can be connected. Furthermore, the alarm centre can be operated via a so-called key switch.

Due to the built-in telephone dialler, the burglar alarm panel is able to transmit an alarm via the telephone network to selected subscribers.

The burglar alarm panel has 9 separately evaluated alarm zones. The alarm centre monitors whether a (minimal) quiescent current is flowing or not between the two contacts (CCT) of each alarm zone. If you make a contact between the alarm zone contacts, this is treated as closed and a current flow is possible. If no contact exists, no current flow is possible and the alarm zone is open. Any changes trigger an alarm, depending on the programming. Differential monitoring of the alarm zones is also possible (DEOL).

The alarm centre also has a built-in PC interface.

Properties of the alarm centre:
- 8 freely programmable alarm zones, all of which can be programmed as follows:
  Immediate, delayed, access, panic, 24 hour, fire, technical or time
- Expandable to a maximum of 32 zones via optional expansion modules
- 1 tamper zone for connected detectors
- 1 tamper zone for connected signal transmitters
- 1 transistor output and 2 relay outputs that can be configured for a specific event (alarm, fire, panic,…)
- Integrated transformer (230V AC / 12V DC) for supplying the alarm centre and connected detectors and for recharging the battery
- Standby power supply via a 12V/7Ah battery
- Simple programming and operation via 1–4 control units
- The state of the alarm zones and the alarm centre is displayed on a plain-text display.
- Zone blocking as a way of temporarily removing individual alarm zones from surveillance
- Access authorisation for operating and programming using a 4-digit or 6-digit code.
- Tamper contacts for the alarm centre and the control units
- Alarm and event memory
- Integrated telephone dialler
- Partitioning of the alarm centre for simulation of 4 separate alarm centres

UK

7   Notes on security system

The Terxon MX burglar alarm panel enables you to configure each of the 8 (max. 32) alarm zones optimally to suit your operating conditions. Recommendations:

- Distribute the external detectors in as small groups as possible to the zones (e.g., ground-floor detector to zone 1, etc.); activate detectors singly; if possible, use all zones of the alarm centre.

- The acoustic signal (siren) of the signal transmitter should be shorter than the visual signal (flashlight). Alarm times must be set according to local regulations. (E.g., in Germany, the acoustic alarm must be limited to 3 minutes.)

- The delay time should not be finally set until a practical test has been conducted.

- Choose a random 4-digit or 6-digit combination for the user and program code.

- Only persons of trust should be given the code.

- When operating the alarm centre, enter the code in such a way that it is concealed from persons standing nearby.

- The cable recommended for connecting the components **(minimum diameter: 0.6 mm/wire)** is normally colour-coded.

The user and program codes must be different.

For reasons of clear layout, use the following colour coding:

Red:	+12V voltage supply
Black:	0V ground
Yellow:	Alarm contact
Green:	Alarm contact
Brown:	Tamper contact
White:	Tamper contact

- Use distributors when connecting more than one detector to an alarm zone. Cable extensions can be soldered or screwed together. Ensure good insulation (insulating tape, shrink-on tubing) to avoid short-circuiting and false alarms. See the illustration on the next page.

- Proceed as follows:
  1. Read the operating instructions carefully.
  2. Draw up a plan of the object that includes the installation location of the detectors and the alarm centre and all cables required.
  3. Lay the cables as required.
  4. Install the detectors and the alarm centre.
  5. Connect the cables to the detectors and the alarm centre.
  6. Connect the power supply (battery, mains).
  7. Program the device.

The diagram below shows the correct usage of soldered distributors when connecting more than one detector to an alarm zone:

NC alarm contact
(e.g. contact switch

Verteiler

Connection cable to alarm centre
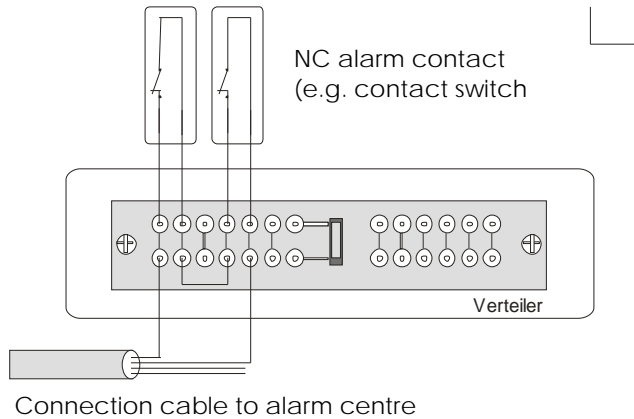
As mentioned above, the alarm centre evaluates the alarm zones via the existing current flow. Most alarm detectors are normally closed, which means that the detectors interrupt the alarm zone in the event of an alarm. The detectors are called NC (normally closed) detectors and are connected as follows **(the CCT jumper must be removed)**:

NC alarm contact

CCT1

Sometimes it is necessary to combine several alarm contacts in a zone. Connect the contacts serially.

NC alarm contact

CCT1
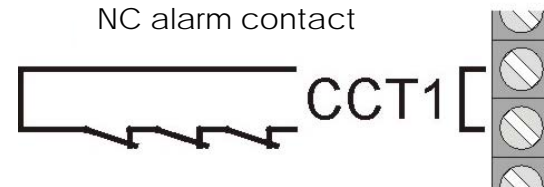
NO (normally open) contacts (e.g., for panic buttons) cannot be connected to this alarm centre.

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8   Overview of housing components

UK
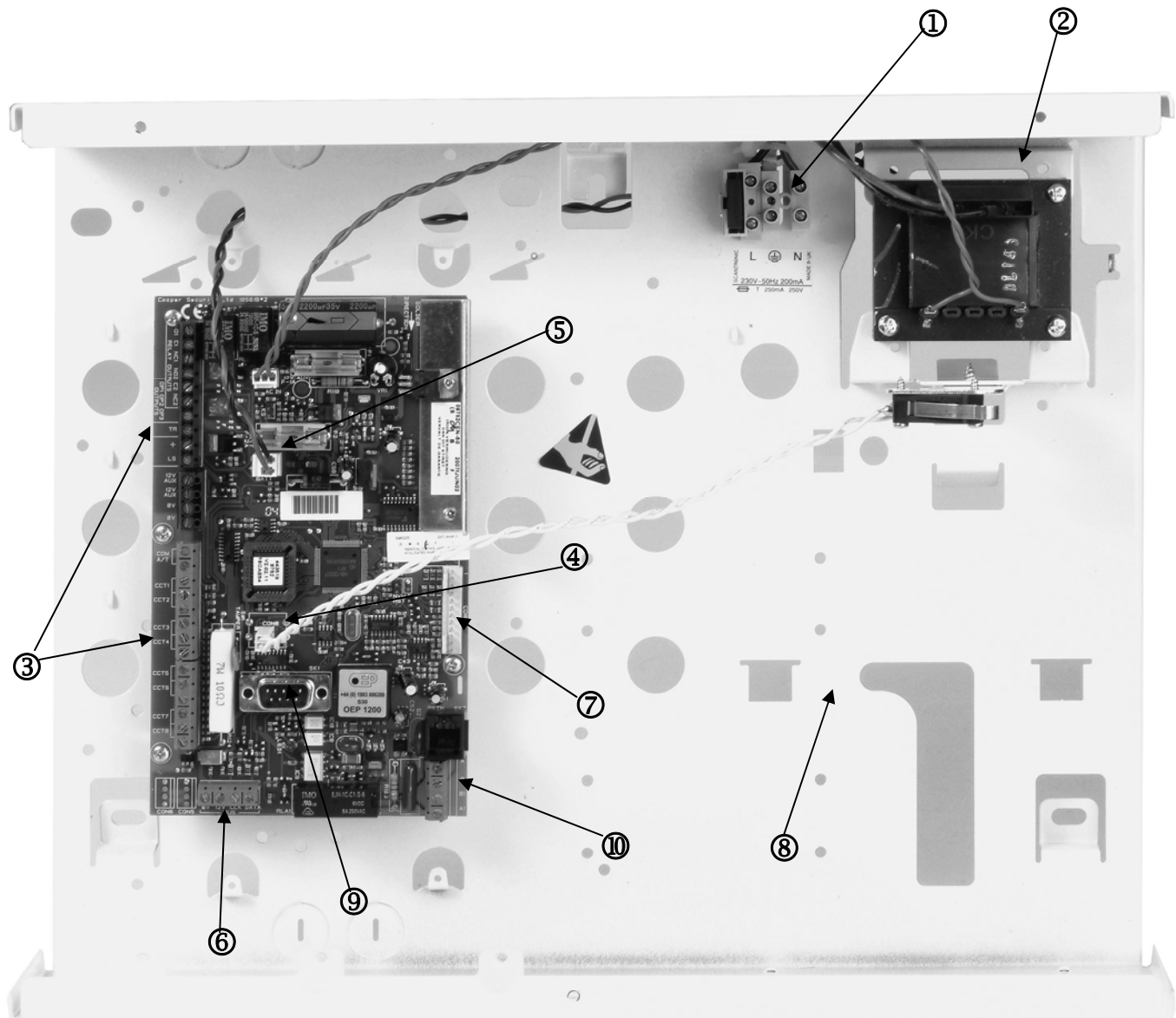
① Connection of 230V mains supply with primary fuse (T 250V 250mA).

② 230V AC / 12V DC transformer

③ Connector strip for siren, flashlight, programmable outputs, loudspeakers, 12VDC power supply and alarm zones.

④ Connection of tamper contacts of the housing of the alarm centre.

⑤ Terminal connector strip for standby battery.

⑥ Terminal connector strip for control units.

⑦ Terminal connector strip for extra transistor outputs or the optional relay module.

⑧ Room for 12V standby battery (7Ah) and cabling.

⑨ Connection for PC data cable

⑩ Connections for telephone line

Note for 230 V connection

Do not switch on the mains power yet!
Connect the mains power to the terminal connector strip as follows:

N — neutral (blue)
⏚ — ground (green/yellow)
L — Phase (black)
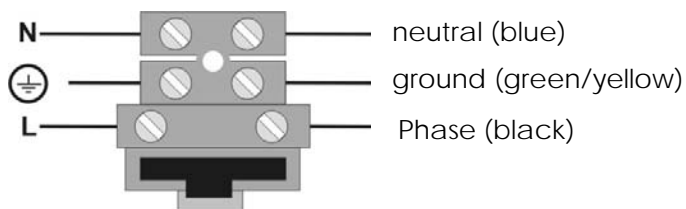
9   Notes on installation

9.1   Alarm centre

Fix the alarm centre to a flat, dry, vibration-free and heat-resistant surface. The cables for the power supply of the alarm centre, the alarm zones and the signalling equipment (siren, flashlight, any external loudspeakers, etc.) should be inconspicuous, if possible below the surface or in a cable channel.

- Open the alarm centre housing (loosen the screws with a Philips screwdriver and remove the cover).

- The alarm centre's PCB is fixed in the housing with three screws. Loosen these screws and remove the PCB. The transformer plug can be disconnected from the PCB.

- Use the housing as a template to make drill-marks for the fixing-screws.

- At the marked positions, drill three holes (min. 4mm Ø, 4.5cm long).

- Fix the alarm centre housing and feed the cables into the housing.

- Do not tighten the fixing screws until you have connected all the cables. Replace the PCB and close the housing by replacing the cover.

9.2   Control units

The control units should also be mounted on a flat, dry, vibration-free surface. The mounting height is important. The units should be positioned so that all users can easily read the display and operate the buttons.

- Open the cover of the control unit and loosen the screws on the base.

- Use the housing as a template to make drill-marks for the fixing-screws.

- At the marked positions, drill three holes (min. 4mm Ø, 3cm long).

- Connect the control unit to the alarm centre (see next page).

- Connect the control unit to the external components.

- Make any settings necessary in the control unit.

- Mount the control unit housing on the wall. Replace the front plate containing the control unit PCB and tighten the fixing screws.

10 Notes on wiring

10.1 Alarm centre

① Terminal connector strip for tamper and alarm   zones.

COM A/T: Connections for detector tampering
CCT 1…8: Connections for alarm zones 1–8

② Terminal connector strip for 12V DC power supply of external equipment (e.g., detectors)

AUX: +12V permanent voltage for detectors
0V: 0V ground

③ Terminal connector strip for loudspeaker, progr. outputs and siren tampering.

TR: Sabotage inputs
+ / LS: Contact for optional 16 Ohm loudspeaker
OP3:   Contact for Open Collector Transistor output
                     (e.g. as trigger signal of dialler)
RELAY
OUTPUTS: Connections for 2 relays NC/NO

④ Terminal strip for control units

12V: 12V+ permanent voltage
0V: 0V ground
Data: Databus
Clock: Databus

⑤ Connection for PC data cable

⑥ Connections for telephone line

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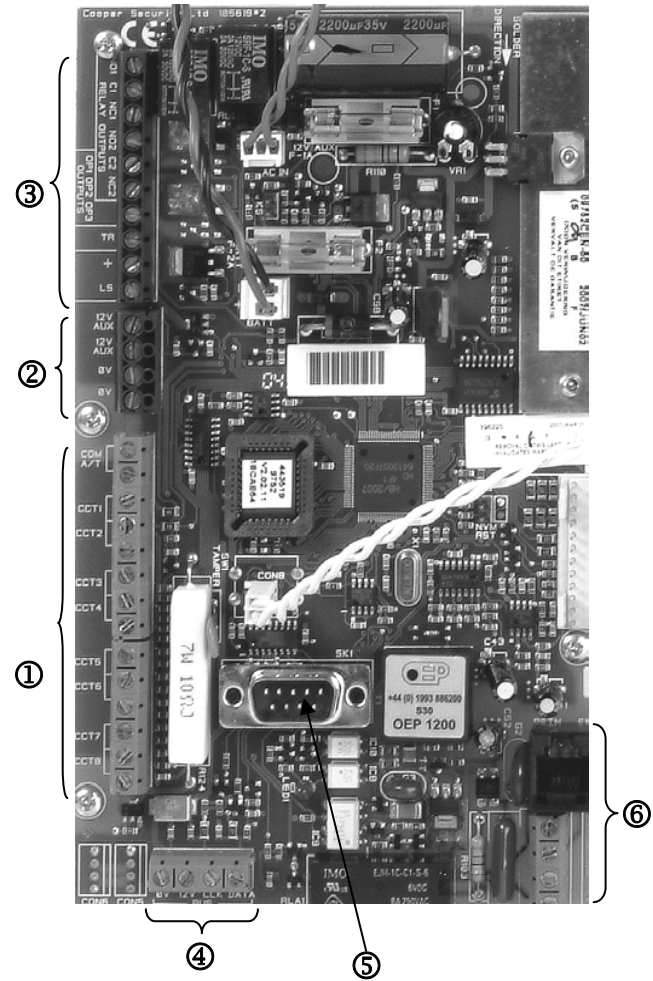
10.2 Control units

The burglar alarm panel can operate with up to four control units connected via a BUS.

The control units can be connected as a ring or star to the alarm centre. Connect the control unit as follows:

①   To next control unit / alarm centre
      Terminal connector strip: 0V
②   To next control unit / alarm centre
      Terminal connector strip: 12V
③   To next control unit / alarm centre
      Terminal connector strip: CLK (Clock)
④   To next control unit / alarm centre
      Terminal connector strip: DATA (Data)

The length of the databus must not exceed 200m. For connecting the control units, use a cable with a wire diameter of min. 0.6mm.

Other devices that can be connected to the control units:

⑤ **ET:** A switch for manual ending of exit delay time. The contact is normally open (NO) and must be closed to activate.
⑥ **Ext. Tamper:** Additional input on control unit to which an external tamper contact (NC) can be connected. The contact must be opened to trigger a tamper alarm.

⑦ **PANIC I/P (from panel version 2.04.0151):** There you can connect a panic button.

NOTE: The connection cables must be inserted in the clamps from above.
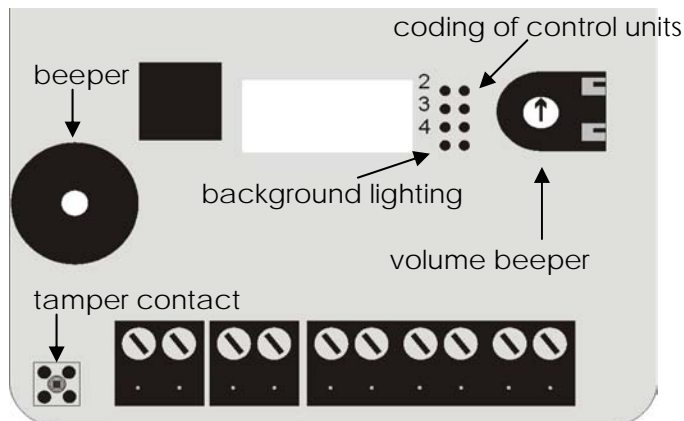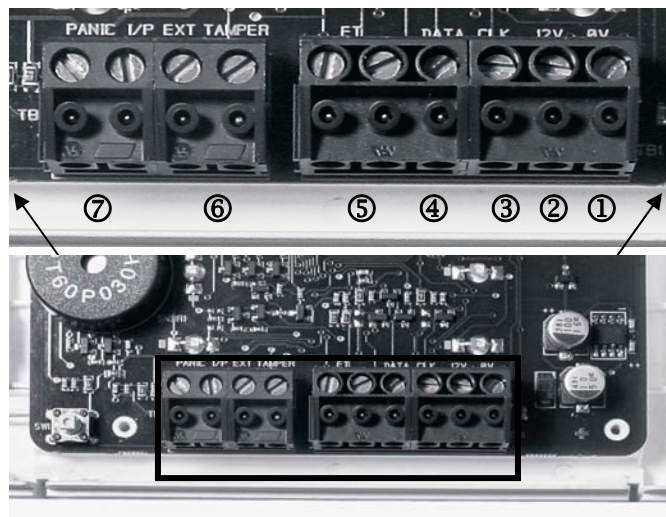
Coding of control units

Control unit 1:	Jumper not connected
Control units 2–4:	Jumper connected accordingly to the pin numbers 2, 3, or 4.

Background lighting

Background lighting on:	Jumper connected.

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Diagram labels:

- 1A AUX fuse for the power supply
- 2A BAT fuse for the battery charging
- COM interface
- NVM
- A B A1 B1 Connection for telephone connection
- AC connectio
- Kick Star
- Battery connectio
- EEPROM
- tamper cover contact
- Local Download - connectio
- 0V 12V CLK DATA
- No1 C1 Nc1 No2 C2 Nc2 Op3 TR + LS 12V AUX 12V AUX 0V 0V COM A/T CCT1 CCT2 CCT3 CCT4 CCT5 CCT6 CCT7 CCT8
- Sir.tamper input
- Optional speaker
- 0V 12V CLK DATA
- control unit

Programmable floating relay output (NC/NO) / 24VDC@1A

Programmable transistor output (OP). Max. power consumption of all transistor outputs 0.5A.

12V power supply for components (e.g.

Tamper input for ext. components

Alarm zones 1 – 8 for NC aöarm contact (e.g. IR detector). No NO contacts can be connected. Make sure alarm zones are terminated with correct resistors. Two different resistors, or no resistor, must be used depending on the programming. If the zone is used then the wire bridge should be removed.

Connection	Meaning
AC mains supply unit **(AC IN)**	Contact for 230V main supply unit
Kick Start jumper **(KS)**	Connect the two contacts of this jumper to start the alarm centre without a 230V mains power supply.
Battery contact **(+ -)**	Connecting plug from standby power supply
COMMS interface	Contact for additional transistor outputs
Reset jumper **(NVM RST)**	Connect the two contacts of this jumper to reset the alarm centre.
Fuses **(BAT F-2A / 12VAUX F-1A)**	Always use fuses of the same type. To avoid problems, make sure there is always a good contact between the fuse holder and the fuse.
Siren sabotage input **(TR)**	For sirens with their own power supply, connect this input direct to the tamper output of the siren. Otherwise, connect the tamper contact of the siren to the loop between the TR input and 0V. If no siren is used, connect the TR input direct to the 0V output.
Optional loudspeaker **(LS)**	Connect a 16 Ohm loudspeaker for internal alerts.
Local download connection **(SK1)**	You can connect a local PC here. The alarm centre can be configured using the downloader program.
Connection for the telephone connection **(RJ11 + A/B / A1/B1)**	RJ11 connection/screw connections for the telephone line

10.3   Detectors

10.3.1 Door and window contacts

Door and window contacts monitor the opening of doors and windows. To activate the entry/exit delay time, at least one contact should be mounted on the main entrance door on which a control unit is also mounted.

For transparency reasons, no more than ten door/window contacts should be used per alarm zone. If the magnet of the reed contact of the detector is removed, the switch contact is opened and the alarm zone is interrupted. Please read the instructions for your door/window contacts.

Connection example:
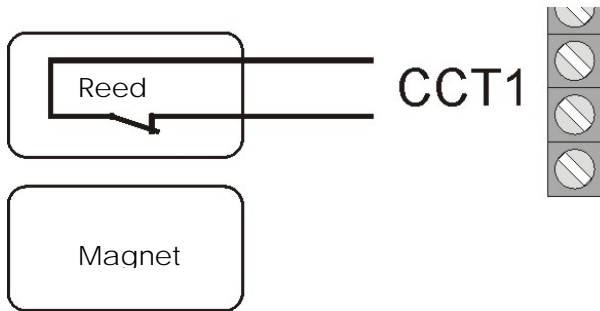
10.3.2 Infrared sensitivity detector

Infrared sensitivity detectors detect the infrared heat movement of living creatures and must not be used indoors. For transparency reasons, avoid using motion sensors with door/window contacts in a zone.

Connection example:

16
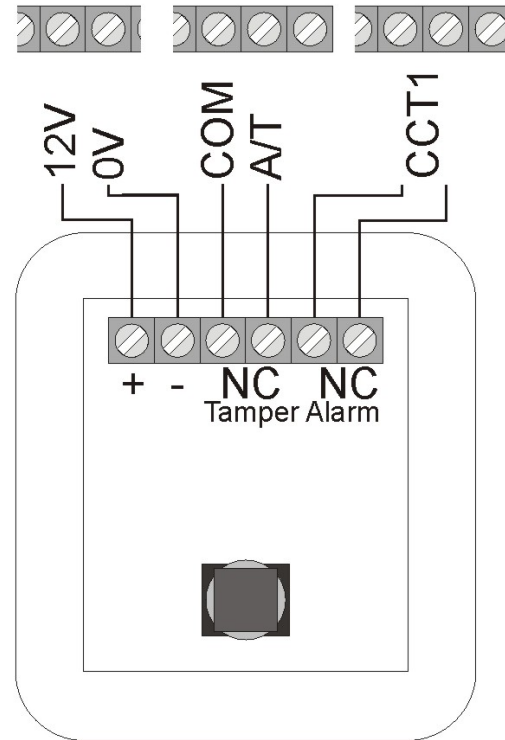
10.3.3 Smoke detector

This burglar alarm panel allows the connection of smoke detectors. For these, program zone type "fire" or "smoke detector", depending on the function of the smoke detector. This programming result in a special acoustic warning for persons present (pulsed alarm tone).
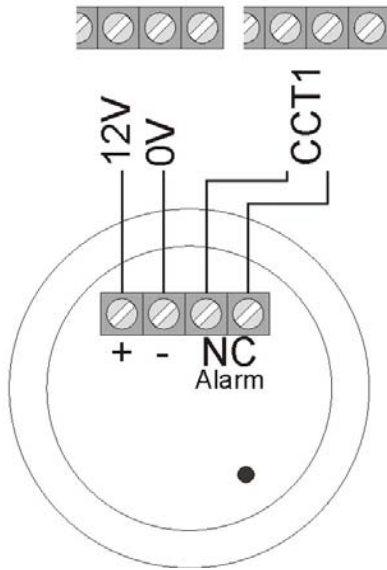
10.3.4 Acoustic glass breakage sensor:

These glass breakage sensors evaluate acoustic signals resulting from glass breakage.

Connection example:
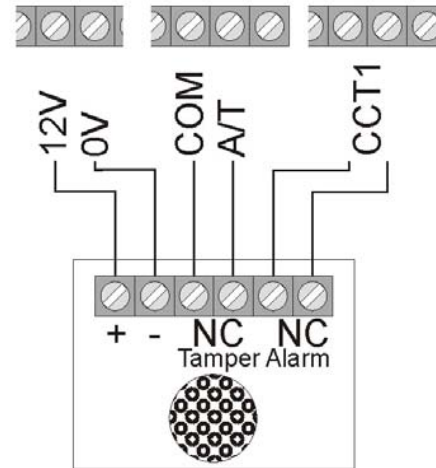
10.3.5 Passive glass breakage sensor:

Passive glass breakage sensors are fixed direct to the glass pane to be monitored. Only passive glass breakage sensors can be used that require no line feed but offer a potential-free alarm contact.

Connection example:
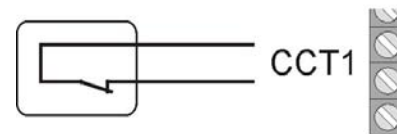
Passive glass breakage sensor

10.4   Outdoor siren and flashlight

To deter burglars and alert the neighbourhood, we recommend connecting a siren and a flashlight to the alarm centre.

Note that these alarm devices should be mounted as high as possible (e.g. at roof height) and the cables should not be visible. Outdoor acoustic alarms can be a disturbance to the neighbourhood. Observe country-specific regulations. We recommend a maximum alarm duration of three minutes. A visual alarm (flashlight) remains active until it is acknowledged manually.

In addition to a siren and flashlight, we recommend connecting the tamper contact of the combination signalling device to the tamper input of the alarm centre. If the siren housing is opened or the connection broken, the interrupted tamper contact triggers a tamper alarm.

Connection example:
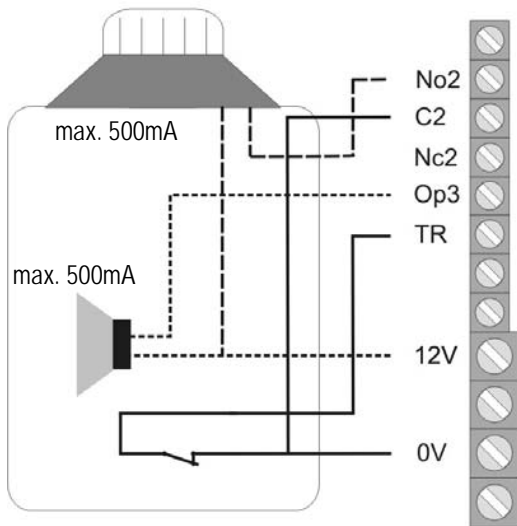
Connecting a signalling device with its own power supply

The functioning principle of this alarm signalling combination is based on a permanent power supply of the siren and a rechargeable battery integrated in the siren housing.

At a transistor output of the alarm centre, either a bias for the siren is applied that is removed in the event of an alarm (or is cut in the event of tampering), or the alarm centre issues a trigger signal on alarm via the transistor output that activates the siren and the flashlight.

The alarm duration of the siren is set on the signalling equipment direct. Here too, the flashlight remains active until it is acknowledged manually. For correct installation, please read the installation instructions of the signalling device with own power supply.

Connection example:

18
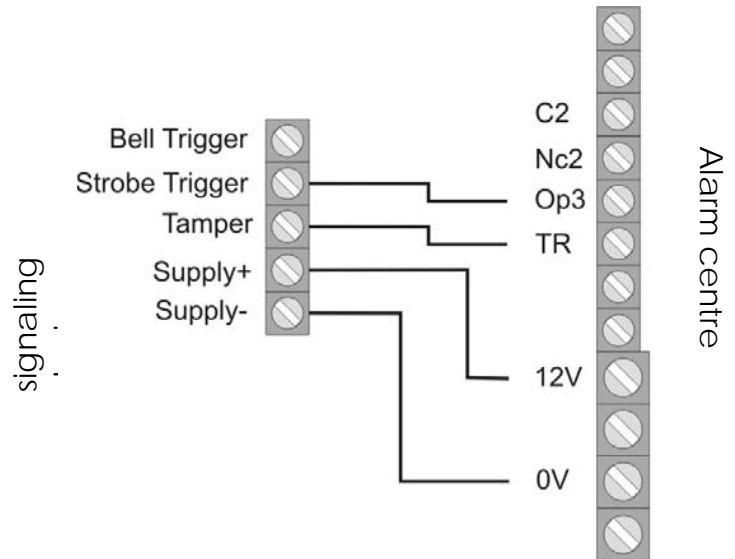
10.5   Dialler

The built-in telephone dialler of the alarm centre allows the most varied system messages to be transmitted to various numbers.

Important: If you are using a DSL splitter as part of your telephone connection then make sure that this is installed before the alarm centre. The high-frequency DSL signal can disturb the transmission.

We recommend the use of the additional alarm outputs for connecting the optional telephone dialling device to the alarm centre.

You can now connect the outputs with the alarm inputs of your dialler. Make sure that the polarity of the alarm input at the dialler is set to -12V (trigger polarity neg.). Additionally, please read the instructions of your dialler.

Alarm panel
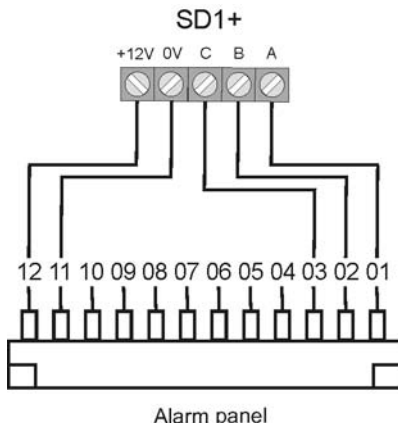
Note the information about additional alarm outputs on the following page.

10.6   Key switch

If programmed accordingly, each zone permits the connection of a key switch for activating or deactivating the alarm centre.

You can use key switches with pulse contact or permanent contact. For key switches with permanent contact, note that the control units are still active and misinterpretations can occur if a key switch is still active but the alarm centre has already been deactivated via the control unit. We therefore recommend the use of key switches with pulse contact.

When the key switch is activated, the exit delay time for the respective area is activated, following which the alarm centre is activated. In the case of internal areas, immediate activation is possible. At reactivation, the alarm centre is deactivated.

Some key switches have additional LED displays that can be externally activated. If necessary, these can be connected to the programmed outputs (OP1).
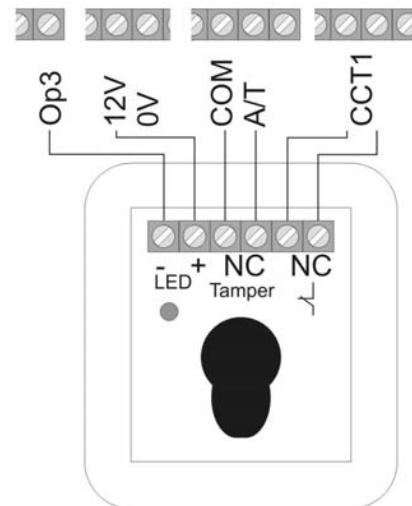
10.7 Fitting and connecting a loudspeaker

An optional 16Ohm loudspeaker is connected to the contacts
LS and +.

The loudspeaker can be integrated directly in the housing of the alarm centre.

Alternatively, the loudspeaker can be mounted as an additional internal alarm away from the alarm centre. The distance from the alarm centre should not exceed 20m.

Additional alarm outputs

At the top of the PCB, the alarm centre has contacts for additional transistor outputs. The cable supplied is connected to these contacts. The cable pin connection is described in the following. Note that the colour code of the cable is not always the same as described below.

Colour	Function
Red (1)	+12V permanent power supply (500mA max.)
Black (2)	Ground 0V permanent
Orange/white (3)	Not used
Brown/white (4)	Fault input of telephone in the case of line loss (+12V if faulty)
Grey (5)	Additional output 8
White (6)	Additional output 7
Violet (7)	Additional output 6
Blue (8)	Additional output 5
Green (9)	Additional output 4
Yellow (10)	Additional output 3
Orange (11)	Additional output 2
Brown (12)	Additional output 1

01 02 03 04 05 06 07 08 09 10 11 12
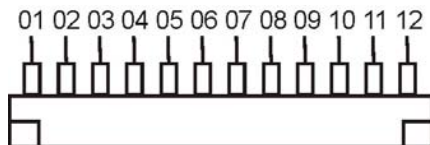
10.8 Relay module

Instead of using the additional transistor outputs, you can connect an optional relay module with eight changer relays. Note the information in the relay module.

10.9 Resistors

The alarm system can monitor the zones in two ways.
A: Zone closed NC (no resistor inserted)
B: Zone closed 2.2 kOhm (two resistors inserted)

In Variant A, the system can only detect whether the zone is opened and it always registers an opening as an alarm in this zone. The tamper contacts of the individual detectors must be connected separately to the tamper zone of the alarm centre. The connection examples described in these instructions refer to Variant A (without resistors).

In Variant B, the tamper contact and alarm contact are monitored in one zone. In the event of a change of resistance, the alarm centre can distinguish whether it is a case of alarm or tampering. Note that there are two different resistance values:
A: 2.2 kOhm (red, red, red, gold)
B: 4.7 kOhm (yellow, violet, red, gold)

Note the two variants built in to the detector:
A: B:
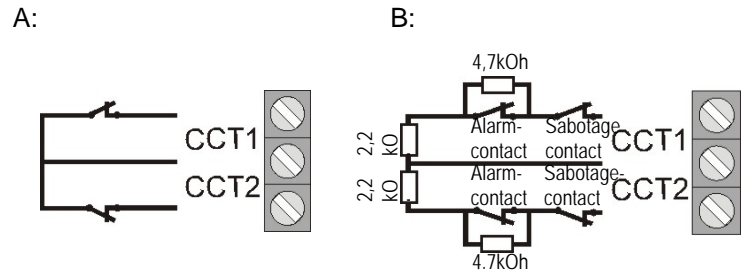
10.10 Connecting expansion modules

The 8-zone wire expansion modules and the 8-zone radio expansion modules are connected to the 4-wire bus as follows.

expansion modul

0V   CLK
12V   DATA

Alarmpanel

0V
12V
CLK
DATA

Alarmpanel
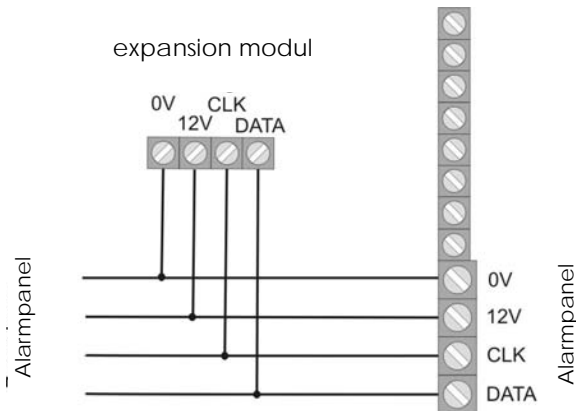
Make sure when connecting the 8-zone wire expansion module that the zone terminations (CC / DEOL) from the alarm centre and the expansion module are identical.

10.11 Addressing of expansion modules:

A determined range of zones must be assigned to each expansion module. Two modules must not occupy the same zone range. The zone ranges are addressed via the jumpers on the expansion modules.

2
3   Zonen 9 -16
4

2
3   Zonen 17 -24
4

2
3   Zonen 25 -32
4

10.12 Walk test

The OP3 output must be appropriately programmed for the walk test (function 83, option 5). If the user activates the walk test function then the LED for motion detection is activated at the detector.

motion detector 1

motion detector 2

walk test

walk test

OP3

12V   12V
0V   0V

12V

0V
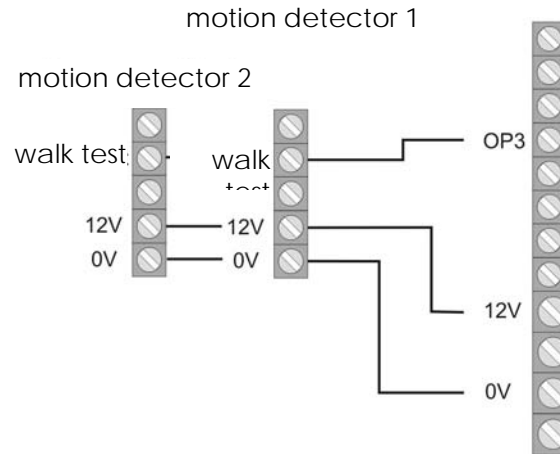
10.13 Detector alarm memory

For the alarm memory function, e.g. for motion detectors, the OP3 output must be appropriately programmed (function 83, option 3). The first detector in the line that triggers the event can store and signalise this.

motion detector 1

motion detector 2

MEM   MEM

OP3

12V   12V
0V   0V

12V

0V
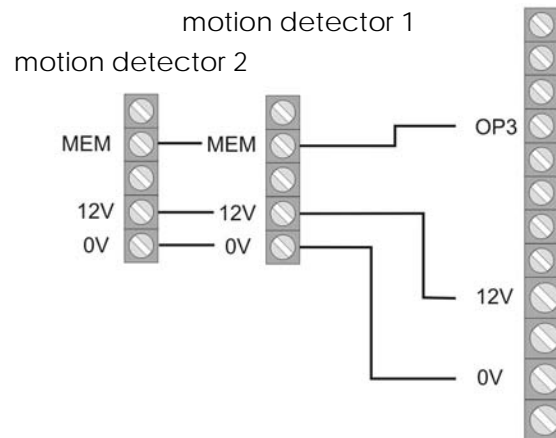
11 Single system or partitioned system

The alarm centre can be operated as a single system or as a partitioned system. In the single system, all locations, and 3 sections of the locations, are simultaneously activated or deactivated. All control units, zones and outputs work for the entire system.

If the alarm centre is functioning as a partitioned system then it provides 4 smaller, independent alarm centres. In a partitioned system:

• every partition can be activated/deactivated independently in case of an alarm.
• various control units can be assigned to one or more partitions. the control units can only activate/deactivate partitions that are assigned to them.
• every partition can have a separate signal transmitter.
• zones can be assigned to several partitions, e.g. an entry door zone can be used by several companies inside a building.

A selection can be made between single systems or partitioned systems the first time the alarm centre is put into operation. If you want to change this later then use command "98 Reset Factory Settings".

For additional information, please read „Programming Partitions".

12 Term declaration

Before starting to program the alarm centre, you should understand the terms used. To start with, here is an explanation of possible zone types and their properties.

NU – NOT USED
A zone to which nothing is connected and therefore not used should be closed with a jumper and set to Not Used.

PA - PANIC
This zone always triggers an alarm, irrespective of whether the burglar alarm panel is activated or deactivated. A panic alarm can also be transmitted silently (e.g.: via an optional telephone dialler). The program menu can be exited only when this zone is closed.

FR - FIRE
This zone always triggers an alarm, irrespective of whether the burglar alarm panel is activated or deactivated. The alarm tone is effected via the buzzer in the control unit and the external siren as a pulsed alarm tone. The program menu can be exited only when this zone is closed. Connect to this zone only fire alarms with an automatic reset, since otherwise a new alarm is triggered during any manual reset.

NA – Normal Alarm
If the burglar alarm panel is active, this zone immediately triggers an alarm if the state of the alarm zone changes (e.g., opening the NC alarm contact). This zone can be opened when you exit the program menu.

24 Hours
This zone always triggers an immediate alarm. If the burglar alarm panel is deactivated, the alarm tone is heard via the buzzer in the control unit and the loudspeaker of the alarm centre. In an active state, the siren output is also activated. If a 24-hour zone is locked, this applies to the deactivated state only. The program menu can be exited only when this zone is closed.

FE - INPUT/OUTPUT
If the burglar alarm panel is active, this zone first triggers an alarm following a specified delay time (entry delay). This zone type can be used for the door contact of your entrance. When you leave the premises, closing this zone can be used for ending the exit delay. This zone can be opened when you exit the program menu.

ER – INPUT TO FOLLOW
This zone triggers no alarm if an entry/exit zone has previously activated the entry delay time. An immediate alarm is triggered if no entry delay is first activated. You can use this zone type for a motion sensor in the entrance hall pointing to the entry door (fitted with a door contact). This detector can be used as an entry/exit detector for internal activation. This zone can be opened when you exit the program menu.

SA – SHOCK SENSOR
This zone is used for older generations of shock sensors. Contact our technical hotline for more information.

TC - TECHNICAL
In deactivated state, a technical zone triggers an alarm via the control unit and an optional dialler. In activated state, no alarm is triggered. If an alarm occurs in this zone in activated state, this is displayed when the alarm centre is deactivated. You can use this zone type for flood sensors. The program menu can be exited only when this zone is closed.

KB – KEYBOX
If this zone is opened, this event is stored in the memory of the burglar alarm panel. The event can also be transmitted via the optional telephone dialler. No alarm is triggered.

SD – FIRE ALARM
This zone works just like a fire zone. In contrast to a fire zone, the connected fire alarms can be reset by briefly switching off the power supply and no alarm is triggered. However, the reset must be made via a switch output. The program menu can be exited only when this zone is closed.

KM – KEY SWITCH PULSE
A key switch (pulsed) can be connected to the burglar alarm panel. Any change to this zone changes the state of the alarm centre from active to inactive or from inactive to active (following a timeout of the delay time).

FK – BLOCK LOCK
A key switch (permanent) can be connected to the burglar alarm panel. Any change to this zone changes the state of the alarm centre from active to inactive or from inactive to active (following a timeout of the delay time). Note that you can operate the alarm centre only via the key switch. If the state is unclear, e.g.: the key switch is closed, and deactivated at the control unit, the alarm centre can return to active state.

AM – ANTI-MASK
The anti-mask function is supported by some motion sensors and works as a cover (tamper) protector. The alarm centre is informed by a separate output on the sensor that the sensor is covered. This problem is then reported to the appropriate alarm zone.

FB – FORBIKOBLER
This zone is connected to an external code lock or an access control device. This zone works like a regular entry/exit zone. If this zone is triggered during the exit time, the exit time is ended immediately and the burglar alarm panel is activated. If this zone is triggered when the burglar alarm panel is active, it starts the entry delay.

13 General terms

ZONE
A zone consists of one or more detectors connected to the burglar alarm panel via an input CCT.
A zone is considered to be opened or triggered if the electric circuit within CCT is interrupted by a detector (motion sensor, magnetic contact,…) (for NC), or if the resistance value changes (for DEOL).
A zone is considered as closed or at rest is the electric circuit is closed within CCT (for NC), or if the line voltage from the alarm centre is within the right parameters (for DEOL).

BURGLAR ALARM PANEL ACTIVATED
When the burglar alarm panel is active, it monitors all zones for changes to the line voltage and triggers a local alarm and optionally an external alarm.

BURGLAR ALARM PANEL DEACTIVATED
When the burglar alarm is active, it monitors only zones that are always active, such as 24-hour zones, technical zones, and burglar and fire alarms. An alarm triggered by one of these zones usually results in an internal alarm.

INTERNALLY/EXTERNALLY ACTIVATED
In addition to the complete activation of the burglar alarm panel, you can also activate individual areas (B, C, D). This means that areas can be activated and protected even if you are at home. This type of activation is known as internal.

INTERNAL ALARM
In the case of an internal alarm, only the buzzers of the control units and the optional loudspeakers are activated.

LOCAL ALARM
In the case of a local alarm, the connected combination signalling devices (flashlight and siren) are also activated.

EXTERNAL ALARM
In the case of an external alarm, not only the acoustic and visual signalling devices are activated: the alarm is also transmitted via telephone.

14 Specimen Installation

This specimen installation is intended to explain the use of Terxon MX.
Here we use a system with two users. One user (de)activates the alarm system using code input, the other with a chip key.
Furthermore, two sensors, a motion sensor (XEVOX ECO) and door/window contacts (FU7350W) are connected to the system. The complete system is armed using the key-switch (SE1000).
The SG1650 signalling device (siren+flashlight) is used for visual and acoustic signalling of an intrusion or panic alarm.
We also wish to explain in detail the programming of the sensor types and of the transistor outputs for the external alarm signalling equipment. Do not connect the equipment yet to the mains power supply or the battery!
We start with the wiring of the alarm lines of the motion sensor and door contacts. This is followed by an explanation of the wiring of the tamper line.
Please use the 8-core alarm cable AZ6360 or AZ6361 for connecting up. The following diagram shows how the sensors are connected to the alarm centre:
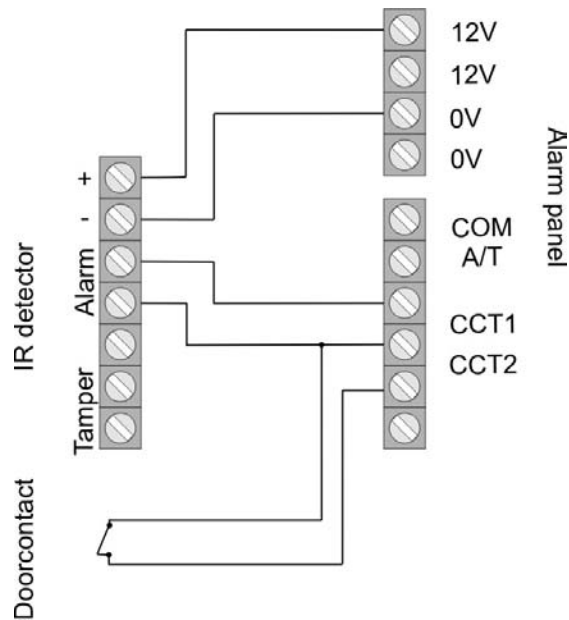
Note that you need two extra lines for connected the tamper line.
In the next step, we connect the control unit to the system. Note that the jumper is not connected if only one control unit is used (see page 13). Connect the control unit to the alarm centre as shown.
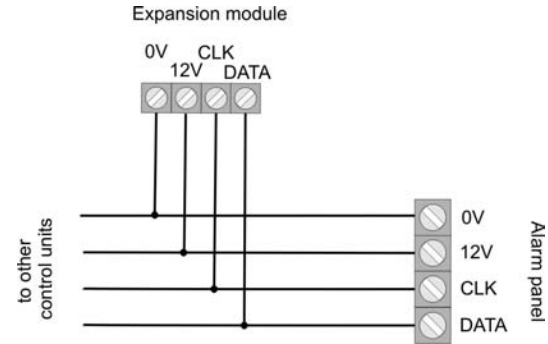
Now connect the key switch (SE1000) to the system. Then connect the cable supplied in the scope of delivery to the connecting strip for the additional switching outputs. These outputs are required for controlling the LEDs.

UK
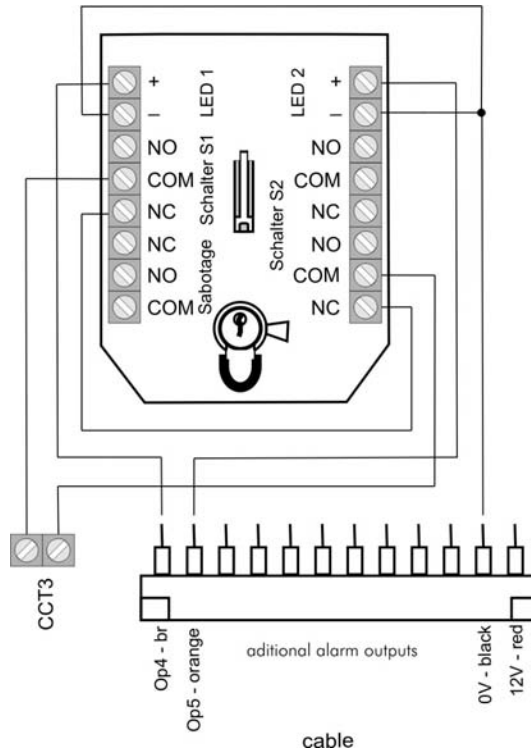
Please read the operating instructions of the SE1000. Please take care that you use the pulse setting for the keyswitch.The circuit shown above enables you to activate/deactivate the alarm system by turning the key in either direction. Here too, the tamper line is not yet connected to the system. The setting of the relais outputs and additional switch outputs is shown later.
In the following, we show you the wiring of the tamper line. Make sure that you connect all tamper contacts of the individual components in series. The siren and flashlight are an exception here since a special tamper connection is provided on the equipment. The following diagram of the motion sensor and key switch shows the connection of the tamper contacts. The door contact sensor has no tamper connections!
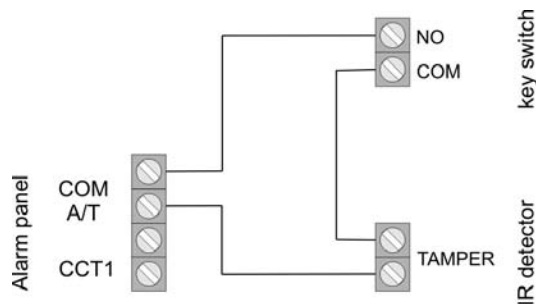
If you just want to use sensors without a tamper contact, insert a jumper between COM and A/T on the alarm system.

Before programming the equipment, read the following description of how to connect the siren and flashlight to the Terxon MX. For this purpose, we use the SG1650. The tamper line of flashlight and siren is connected via a separate tamper contact to the equipment. If you do not want to use an external signalling device, place a jumper between TR and GND (0V) of the alarm centre. The following diagram shows the connection of the SG1650 to the Terxon MX:
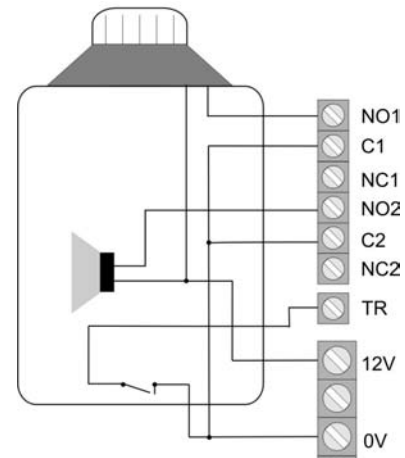
This completes the connection of the equipment.

We now come to the programming of the alarm equipment. Make sure than the tamper contacts of all components are closed before you connect the equipment to the power supply. Proceed as follows:

1. Connect the 12V battery (7.0 Ah) to the contacts of the alarm centre (note the colour code: red = +12V, black = 0V).

2. Using a screwdriver, short-circuit the two pins of the kick-start jumper (see p. 14).

3. The green LED for the power supply (≃) begins to flash and the buzzers of the control units can be activated. You can ignore the display messages.

4. Enter the factory-set user code.
   This is: **1234**. You can ignore the display messages.

5. First close the housing of the burglar alarm panel securely before switching on the 230V voltage.

6. Switch on the 230V mains voltage to the burglar alarm panel.

7. The green LED for the voltage (≃) now lights constantly.

8. Now enter via the control unit: **0** and then the factory-set programming code **7890**
The following shows on the display: Mult Syst?

9. Press Key 1 to create a partitioned system.
Press Key 0 to create a single system like we do.

10. The display shows: PROGR. MODE

11. You are now in the program menu of the burglar alarm panel and can start programming.

First we program the two zones.
On the keypad, enter 001 followed by ☑ to make settings to Zone 1 (motion sensor). You see the following display:

> 001: Zone01
>   TERXON M

You can now change the zone name "Zone01" using the keypad of the control unit. The keys are similar in operation to those of a mobile phone. Press C to move one place forwards, and D one place back (see page 45). Now press the Enter key ☑; the following appears:

> 001: FE a 1
>   TERXON M

Define Zone 001 as "immediate" by entering 03. You see the following display:

> 001: NA a
>   TERXON M

By pressing keys A, B, C, D, you can change the assignment of the sensor to the individual areas. . In this programming example the detector works only when the hole system is activated.. Now confirm your input by pressing ☑. You are returned to the start screen of the programming menu.
Now enter 002 for programming Zone 2, followed by ☑. You see the following:

> 002: Zone02
>   Terxon S

Change the name of the zone according to your wishes and then press the Enter key ☑.You see the following:

> 002: Er abcd1
>   TERXON M

We will now change this to entry/exit. Enter 05. You see the following in the display:

> 002: FE a   1
>   TERXON M

Now press B to add area B to the sensor. Confirm your setting by pressing the Enter key ☑.
The "1" following the sub-areas stands for the time delay group (1 to 4). You can change this at any time in the programming menu (menu items 201 to 204, see page 82). You now have to program the key switch to Zone 3. Enter 003, change the zone name if required, and press the Enter key ☑. The display shows the following:

> 003: NA a
>   TERXON M

Change the zone by entering 11 in the key switch, and the following appears:

> 003: KM a
>   TERXON M

Confirm your input with ☑. Note that non-connected zones (004 to 008) are marked as "Not Used" (NU). You can set a zone by entering 00.

In the next step, we set the exit delay time. This is the time available for leaving the secure area before the alarm system is activated.
In programming mode, enter 044 on the keypad, followed by ☑. The display shows:

> 044: Exit A=45
>   TERXON M

Enter an exit delay time (1 for 10 sec. to 6 for 120 sec.) and confirm with ☑.
Set entry delay time under menu item 201.

> 201: Entry 1 = 45
>   TERXON M

In this example, you have 45 seconds to deactivate the armed alarm system.
You can choose values from 10 to 120 sec. 1 stands for 10 and 6 for 120 seconds. After your selection, press ☑.

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Now we program additional transistor outputs for the LEDs of the key switch. The yellow LED should light in deactivated alarm state, and the red LED in activated alarm state of the alarm system. To program the first additional transistor output OP4 or the state of the red LED, enter 151 on the keypad. Confirm your input by pressing the Enter key ✓.
You see the   following:

> 151: Fire
> TERXON M

Enter 13 to change the setting to "Open". The display changes to:

> 151: Open
> TERXON M

Confirm your input with ✓.
The transistor output OP5 – item 152 in the programming menu – has to be adjusted on "CLOSE" (14). Note that changes do not take effect until you exit the programm-ing menu.
The yellow LED now lights permanently when the alarm system is deactivated, and switches off when it is activated. The red LED shows whether the system is activated.

The following describes the settings of relais outputs 1 and 2 for the siren and the flashlight of the SG1650.
Enter 081 on the keypad and confirm with ✓. The following display appears:

> 081: Bell
> TERXON M

Please change the setting to Strobe. Enter 08 and press ✓. This first resets the flashlight when you deactivate the alarm system.
Relais output 2 must be set to "Bell". To do this, select menu item 083 and verify with ✓. Enter 00 and ✓ to set the exit to "Bell".
To change the siren delay, enter 041 in the programming menu and press the Enter key ✓. The display shows:

> 041: Bell Dly = 0
> TERXON M

If required, you can change the siren delay. You can select values from 0 to 20 min.
For the siren duration, you can select values from 1.5 min. to 20 min.
Select the programming item 042 and confirm with ✓. You see the following display:

> 042: Bell On = 15
> TERXON M

We recommend that you keep this value or reduce it to 1.5 minutes (in Germany, the siren duration must not exceed 3 minutes).

Before defining users, test the alarm system functions. Start by testing the relais/transistor outputs. Enter 091 in the programming menu and press ✓.

> 091: Test: O/P 1
> TERXON M

You now have a connection between NO1 and C1.
If you now press ✓ again, the output is reset. Under menu items 092 and 093, you can test outputs 2 and OP3.

In the next step, check that the control unit buzzer is functioning properly. Select menu item 095 and press ✓. You see the following display:

> 095: Test: Keypad
> TERXON M

At the same time, you hear a constant buzzer tone. The buzzer is working. Confirm with ✓.

Finally, test the functionality of the sensors. Do this under menu item 097. After entering this item, press the Enter key ✓. You see the following display:

> 097: Walk Test
> TERXON M

Now open Zone 02. You hear a double tone and see the following display:

> A: Zone 02
> TERXON M

Close the zone and press ✓ again to end the sensor test. Run the same test for the other sensors.

If you use a loudspeaker with the system, you can test it in the programming menu under item 094.
You have now made all settings in the programming menu. Exit the programming menu by entering 099 and confirming with ☑. You are now in the user menu.

We now add two users to the system. The first user (BERND) is to activate and deactivate the system by entering a code, the second (ANNA) using a chip key.
In the user menu, enter the administrator code 1234.

> Select ?
>   TERXON M

Now enter 4 on the keypad. The control unit shows:

> Old code =
>   TERXON M̄

Enter the user number of User 2. This is: X002. Press ☑. The display shows:

> U02: User 02
>   TERXON M

Now change the name on the keypad – in this case, BERND.

> U02: BERND
>   TERXON M

Press the Enter key ☑.
You are now asked to enter a new code in the system.

> User 02:
>   TERX̄ON M̄

Enter 1111 (for example) and confirm with ☑. This code is for activating and deactivating the alarm system.
In the next step, we add User Anna, who is to activate and deactivate the alarm system using a chip key. In the user menu, enter the administrator code (1234) followed by 4. You see the following:

> Old code =
>   TERXON M̄

Enter the user number of User 3. This is: X003. Press ☑. The display shows:

> U03: User 03
>   TERXON M

Now change the name to ANNA and press the Enter key ☑. The display shows:

> U03: ANNA
>   TERXON M

After you press the Enter key, the display shows:

> User 03:
>   TERX̄ON M̄

Hold the chip key in front of the control unit. You hear a double tone. The chip key has been successfully programmed. If required, you can also define a PIN for the user. In this case, the user can choose between code and chip key to activate/deactivate the alarm system.
To activate the Terxon MX, enter the code or hold the chip key in front of the system. You see the following display:

> Select ?
>   TERXON M

By pressing "A" or ☑, you can now activate the complete system. By pressing B, C or D, you can select individual sub-areas. In this specimen installation, you could for example activate sub-area B to arm the door contact and thus monitor the exit doors.
The system is now fully installed and configured.

If you use SG1710 or SG1900 instead of SG1650, see the following connection diagrams.
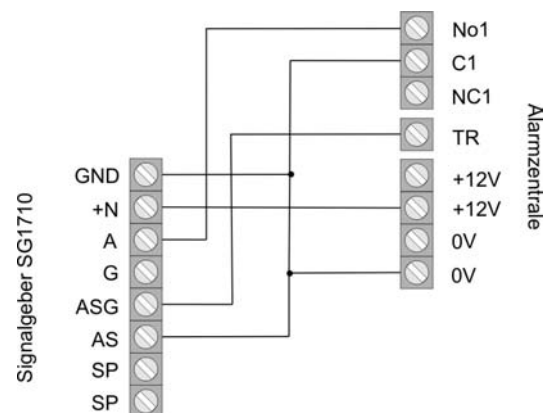
If you use the siren, transistor output OP1 (programming menu: menu item 081) must be set to "Bell" (00).
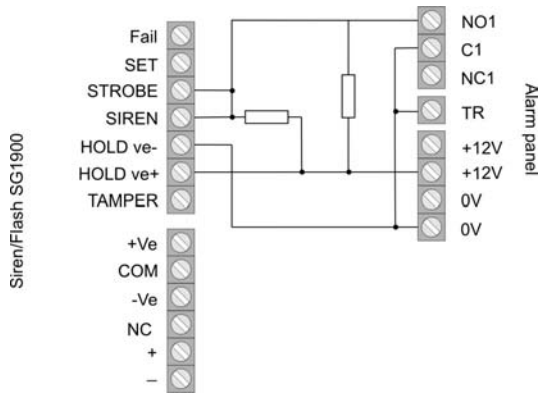
Use the resistors provided to connect the SG1900 (1kOhm). Do not forget to change the connector of the internal battery from NC to Battery (–).
Se also the operating instructions of the signalling equipment, which you should read carefully.

15 First-time usage

If you want to create your own configuration of the system and do not need the example of installation pay attention to the next steps. Please take notice of the important terms concerning the alarm panel. You can now put the alarm panel into operation.

1. Connect the 12V battery (7.0 Ah) to the contacts of the alarm centre (note the colour code:
   red = +12V, black = 0V).

2. Using a screwdriver, short-circuit the two pins of the kick-start jumper (see p. 14).

3. The green LED for the power supply (⌇) begins to flash and the buzzers of the control units can be activated. You can ignore the display messages.

4. Enter the factory-set user code. This is: **1234**. You can ignore the display messages.

5. First close the housing of the burglar alarm panel securely before switching on the 230V voltage.

6. Switch on the 230V mains voltage to the burglar alarm panel.

7. The green LED for the voltage (⌇) now lights constantly.

8. Now enter via the control unit: **0** and then the factory-set programming code **7890** The following shows on the display: Mult Syst?

9. Press Key 1 to create a partitioned system. Press Key 0 to create a single system.

10. The display shows: PROGR. MODE

11. You are now in the program menu of the burglar alarm panel and can start programming.

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16 Programming

16.1   Program mode

All input in program mode is made via the keypad. The LCD display gives you information about your input. For further information about the programming items, see page 30.

Proceed as follows to change an item:
1. Via the keypad, enter the three-digit number of the menu item (e.g., 001 for Zone 1) whose property you want to view or change. To confirm your input, press the Enter key ✓.
   The selected menu item is shown on the LCD display.

2. To leave a setting unchanged, press the Enter key ✓.

3. Otherwise, enter the new value via the keypad. You can see possible values in the programming table.
   The new property is displayed.

4. To confirm and save the new value, press the Enter key ✓.

5. You can select a new item only if the LCD display shows Installer Mode.

To exit the program menu:
1. The LCD display shows: Installer Mode.

2. Enter 99 and confirm your entry by pressing the Enter key .
   The LCD display shows: Exit Eng. ?

3. Confirm your input by pressing the Enter key ✓. To cancel your input, press the X key ✗.

4. After you confirm your input with the Enter key ✓, the alarm centre checks the current status of the system. If everything is correct, the alarm centre returns to normal operating state.
   You have exited the program menu. The alarm centre is now deactivated.

5. If there are any system faults, these are now displayed. Possible faults are:
   - Tamper contact of the alarm centre or control unit open
   - No mains or battery power available
   - A zone is open that triggers immediate alarm even when the alarm centre is deactivated (24 hour, fire, tamper).
   If there is a system fault, the program mode is not exited. First clear all displayed system faults and repeat the steps listed above.

Factory settings	
Program code/ Master code:	7890
User code 1/ Admin code:	1234
User codes 2–16:	X002….X016 (not valid until setting)
Threat code:	x017 (not valid until setting)

16.2 Overview of program menu

Country setting (000 ☑ n ☑)

Important: If you change the country setting, all system settings are reset to the country settings of the new country.

Menu item	Setting (n)	Meaning
000	0	UK – Great Britain
	1	I – Italy
	2	EE – Spain
	3	P – Portugal
	4	NL – Netherlands
	5	FR – France
	6	B – Belgium
	7	D – Germany
	8	CH – Switzerland
	9	A – Austria
	X1	IRL – Ireland
	X2	OEM1
	X3	OEM2
	X4	FI – Finland
	X5	N – Norway
	X6	DK – Denmark
	X7	S – Sweden

Zone setting (001 – 016, X17 - X32 ☑ ☑ nn ☑)

In zone programming, you first program the zone name and then the zone property.

Menu item	Setting (nn)	Meaning
001 - 008	00	NU – Not Used
	01	PA – Panic
	02	Fr – Fire
	03	NA – Immediate
	04	24 – 24 hour
	05	FE – Entry/exit
	06	Er – Entry to follow
	07	SA – Shock Analyser
	08	Tc – Technical
	09	KB – Keybox
	10	SD – Fire alarm

Menu item	Setting (nn)	Meaning
	11	KM – Key switch
	12	KF – Block lock
	13	AM – Anti Mask
	14	FB – Forbikobler Zone

In addition to the zone properties, you program the zone attributes.

Menu item	Setting (nn)	Meaning
	X1	C – Chime
	X2	S – Sensor test
	X3	D – Double trigger
	X4	O – Zone locks possible
	X7	1…6 Sensitivity
	B	Monitored in area B
	C	Monitored in area C
	D	Monitored in area D

Program code (020 ☑ nnnn ☑)

Menu item	Setting	Meaning
020	nnnn	Program code

Zone termination (021 ☑ n ☑)

Menu item	Setting	Meaning
021	0	No resistor NC
	1	Two resistors FSL

Internal volume (022 ☑ n ☑)

Menu item	Setting	Meaning
022	0	Off
	1…9	Quiet...Loud

Remote Reset (023 ☑ n ☑)

Menu item	Setting	Meaning
023	0	OFF
	1	ON

Account Name (024 ☑ n ☑)

Menu item	Setting	Meaning
024		Account name
	x	return to progr. mode

Internal alarm (025 ☑ n ☑)

Menu item	Setting	Meaning
025	0	Local alarm following
	1	Until deactivated

Alarm on failed Activation (027 ☑ n ☑)

Menu item	Setting	Meaning
027	0	Internal Alarm
	1	Local Alarm

Hide state display (028 ☑ n ☑)

Menu item	Setting	Meaning
028	0	Never hide
	1	Hide after 180 secs.
	2	Hide 30 sec after code

External alarm display on activated entry delay (029 ☑ n ☑)

Menu item	Setting	Meaning
029	0	Off
	1	On

Panic alarm (030 ☑ n ☑)

Menu item	Setting	Meaning
030	0	Loud
	1	Silent

Zone tamper reset (031 ☑ n ☑)

Menu item	Setting	Meaning
031	0	No program code necessary
	1	Program code necessary

Control units and partitions (032 ☑ nnnn ☑)

Menu item	Setting	Meaning
032	A	Assignment of control unit to partition A
	B	Assignment of control unit to partition B
	C	Assignment of control unit to partition C
	D	Assignment of control unit to partition D

System reset (033 ☑ n ☑)

Menu item	Setting	Meaning
033	0	No program code necessary
	1	Program code necessary

Panic reset (034 ☑ n ☑)

Menu item	Setting	Meaning
034	0	User reset
	1	Program reset

Hide First Sensor Alarm (035 ☑ n ☑)

Menu item	Setting	Meaning
035	0	Hide first sensor
	1	Monitor first sensor

Cancel alarm (036 ☑ n ☑)

Menu item	Setting	Meaning
036	0	User can not cancel false alarm
	1	User can cancel false alarm

Sabotage report deactivated (037 ☑ n ☑)

Menu item	Setting	Meaning
037	0	Only internally
	1	Internally + central station

System tamper reset (038 ☑ n ☑)

Menu item	Setting	Meaning
038	0	User reset
	1	Program reset

Exit mode for overall area (039 ☑ n ☑)

Menu item	Setting	Meaning
039	0	Exit time
	1	Manual
	2	Last door
	3	Key switch
In a partitioned system		
	1	Exit time
	2	Manual
	3	Immediate
	4	Silent
	5	Key switch

System auto active following alarm (040 ☑ n ☑)

Menu item	Setting	Meaning
040	0	Never
	1	Once
	2	Twice
	3	Three times
	4	Always

Siren delay (041 ☑ n ☑)

Menu item	Setting	Meaning
041	0	No delay
	1	1.5 min delay
	2	3 min delay
	3	5 min delay
	4	10 min delay
	5	15 min delay
	6	20 min delay

Siren duration (042 ☑ n ☑)

Menu item	Setting	Meaning
042	1	1.5 min
	2	3 min
	3	5 min
	4	10 min
	5	15 min
	6	20 min

Exit time overall area (044 ☑ n ☑)

Menu item	Setting	Meaning
044	1	10 sec
	2	20 sec
	3	30 sec
	4	45 sec
	5	60 sec
	6	120 sec

Entry/exit delay volume (045 ☑ n ☑)

Menu item	Setting	Meaning
045	0	No signal
	1…9	1 = quiet – 9 = loud

Tamper alarm reaction (046 ☑ n ☑)

Menu item	Setting	Meaning
046	0	Internal alarm
	1	Control unit
	2	Internal + control unit

Partition A alarm Reaction (047 ☑ n ☑)

Menu item	Setting	Meaning
047	0	Control unit alarm
	1	Control unit + speaker
	2	Control unit + speaker + dialler

Control unit lock (048 ☑ n ☑)

Menu item	Setting	Meaning
048	0	OFF
	1	ON

CSID Code (050 ☑ nnnn ☑)

Menu item	Setting	Meaning
050		Central station ID for remote reset

Date and time (051 ☑)

See also the description of how to enter date and time.

Menu item	Setting	Meaning
051	DnnMnnYnn	Enter date
	HnnMnn	Enter time

Zone and tamper lock (052 ☑ n ☑)

See also the description of how to enter date and time.

Menu item	Setting	Meaning
052	0	Zone lock possible
	1	Zone and tamper lock possible

Cancel - Reset (053 ☑ n ☑)

Menu item	Setting	Meaning
053	0	Option as in item 33
	1	Reset by user

BVVO monitoring (054 ☑ n ☑)

Menu item	Setting	Meaning
054	0	OFF
	1	ON

Length of access code (056 ☑ n ☑)

Menu item	Setting	Meaning
056	0	4-digit code
	1	6-digit code

Battery test (057 ☑ n ☑)

Menu item	Setting	Meaning
057	0	OFF
	1	ON

BVVO Tamper reset (058 ☑ n ☑)

Menu item	Setting	Meaning
058	0	Reset by user
	1	Reset by installer

Siren tamper (059 ☑ n ☑)

Menu item	Setting	Meaning
059	0	NC
	1	EOL (2k2 resistor)

Zone behaviour at Internal B (060 ☑ n ☑)

Menu item	Setting	Meaning
060	0	Entry/exit zone remains entry/exit zone
	1	Entry/exit zone becomes immediate zone

Zone behaviour at Internal B (061 ☑ n ☑)

Menu item	Setting	Meaning
061	0	Following entry remains following entry
	1	Following entry becomes entry/exit zone

Exit mode for Internal B (062 ☑ n ☑)

Menu item	Setting	Meaning
062	0	Exit time + quiet tone
	1	Immediate
	2	Silent
	3	As exit mode for overall activated
In a partitioned system		
	0	Exit time + tone
	1	Manual

	2	Last door
	3	Immediate
	4	Silent
	5	Lock

Alarm behaviour at Internal B (063 ☑ n ☑)

Menu item	Setting	Meaning
063	0	Only control unit
	1	Loudspeaker and control unit
	2	Local Alarm
	3	External Alarm (siren and dialler)
In a partitioned system		
	0	Only control unit tone
	1	Control unit + speaker
	2	Control unit + speaker + comms

Exit time at Internal B (065 ☑ n ☑)

Menu item	Setting	Meaning
065	1	10 sec
	2	20 sec
	3	30 sec
	4	45 sec
	5	60 sec
	6	120 sec

Forbikobler partitions (066 ☑ n ☑)

Menu item	Setting	Meaning
066	A	Control unit for part. A
	B	Control unit for part. B
	C	Control unit for part. C
	D	Control unit for part. D

Forbikobler correct (067 ☑ n ☑)

Menu item	Setting	Meaning
067	0	OFF
	1	ON

Forbikobler entry time (068 ☑ n ☑)

Menu item	Setting	Meaning
068	0	2 seconds
	1	3 seconds
	2	4 seconds
	3	5 seconds
	4	10 seconds
	5	20 seconds
	6	30 seconds
	7	60 seconds
	8	120 seconds
	9	255 seconds

Forbikobler door lock (069 ☑ n ☑)

Menu item	Setting	Meaning
069	0	Time lock
	1	Pulse lock

Zone behaviour at Internal C (070 ☑ n ☑)

Menu item	Setting	Meaning
070	0	Entry/exit zone remains entry/exit zone
	1	Entry/exit zone becomes immediate zone

Zone behaviour at Internal C (071 ☑ n ☑)

Menu item	Setting	Meaning
071	0	Following entry remains following entry
	1	Following entry becomes entry/exit zone

Exit mode for Internal C (072 ☑ n ☑)

Menu item	Setting	Meaning
072	0	Exit time plus quiet tone
	1	Immediate
	2	Silent
	3	As exit mode for overall activated
In a partitioned system		
	0	Exit time
	1	Manual
	2	Last door
	3	Immediate
	4	Silent

	5	Lock

Alarm behaviour at Internal C (073 ☑ n ☑)

Menu item	Setting	Meaning
073	0	Control unit
	1	Loudspeaker and control unit
	2	Local Alarm
	3	External Alarm (control unit + siren and dialler)
In a partitioned system		
	0	Control unit
	1	Local Alarm
	2	External Alarm (control unit + siren + comms)

Exit time at Internal C (075 ☑ n ☑)

Menu item	Setting	Meaning
075	1	10 sec
	2	20 sec
	3	30 sec
	4	45 sec
	5	60 sec
	6	120 sec

Exit mode for Internal D (076 ☑ n ☑)

Menu item	Setting	Meaning
076	0	Exit time plus quiet tone
	1	Immediate
	2	Silent
	3	As exit mode for overall activated
In a partitioned system		
	0	Exit time
	1	Manual
	2	Last door
	3	Immediate
	4	Silent
	5	Lock

Alarm behaviour at Internal D (077 ☑ n ☑)

Menu item	Setting	Meaning
077	0	Control unit
	1	Loudspeaker and control unit
	2	Local Alarm
	3	External Alarm (siren and dialler)
In a partitioned system		
	0	Control unit
	1	Local Alarm
	2	External Alarm (control unit + siren +dialler)

Exit time at Internal D (079 ☑ n ☑)

Menu item	Setting	Meaning
079	1	10 sec
	2	20 sec
	3	30 sec
	4	45 sec
	5	60 sec
	6	120 sec

Forbikobler door bell (080 ☑ n ☑)

Menu item	Setting	Meaning
080	0	Siren remains off
	1	Door bell triggers siren

Behaviour of relay output 1 (081 ☑ nn ☑)

Menu item	Setting	Meaning
081	00	Siren
	01	Input/output to follow
	02	Active to follow
	03	Active stable
	04	Shock sensor reset
	05	Walk test
	06	Ready to follow
	07	24 hours
	08	Flash to follow
	09	Fire reset
	10	Siren test (self setting)
	11	Active acknowledgement
	12	Active pulse 1
	13	Inactive pulse 1
	14	Confirm alarm
	15	Activate all 1
	16	Deactivate all 1
	17	Alarm
Only in partitioned system:		
	18	Siren partition A
	19	Siren partition B
	20	Siren partition C
	21	Siren partition D
	22	Flash partition A
	23	Flash partition B
	24	Flash partition C
	25	Flash partition D
	26	Active pulse 1
	27	Active pulse 2
	28	Active pulse 3
	29	Active pulse 4
	30	pulse 1
	31	Inactive pulse 2
	32	Inactive pulse 3
	33	Inactive pulse 4
	34	Fire
	35	Panic

Behaviour of relay output 2 (082 ☑ nn ☑)

Menu item	Setting	Meaning
082	See setting	for transistor output 1

Behaviour of Transistor Output 1 (083 ☑ nn ☑)

Menu item	Setting	Meaning
083	See setting	for transistor output 1

Behaviour of Outputs on Burglar Alarm (085 ☑ n ☑)

Menu item	Setting	Meaning
085	0	Stable to deactivated
	1	Reactivate

Additional Entry Delay (086 ☑ n ☑)

Menu item	Setting	Meaning
086	0	Off
	1	On

Control Unit Alarm (087 ✓ n ✓)

Menu item	Setting	Meaning
087	0	Not activated
	1	Activated

Confirm alarm (089 ✓ n ✓)

Menu item	Setting	Meaning
089	0	Confirm OFF
	1	Confirm ON

Event memory (090 ✓ n ✓)

Menu item	Setting	Meaning
090	0	Print memory
	1	Page backwards
	3	Page forwards
	✗	Exit memory
	✓	Toggle between date/time and event

Test Exit 1 (091 ✓)

Menu item	Setting	Meaning
091	✓ ✗	End test

Test Exit 2 (092 ✓)

Menu item	Setting	Meaning
092	✓ ✗	End test

Test Exit 3 (093 ✓)

Menu item	Setting	Meaning
093	✓ ✗	End test

Test internal loudspeaker (094 ✓)

Menu item	Setting	Meaning
094	✓ ✗	End test

Test siren control unit (095 ✓)

Menu item	Setting	Meaning
095	✓ ✗	End test

Walk Test (097 ✓)

Menu item	Setting	Meaning
097	✓ ✗	End test

Reset Factory Settings (098 ✓)

Menu item	Setting	Meaning
098	✓ ✗	Set factory settings

Exit Program Menu (099 ✓)

Menu item	Setting	Meaning
099	✓	Exit program menu

101-158 for programming the communication:

Rufmodus TWG (101 ✓ n ✓)

Menu item	Setting	Meaning
101	0	OFF
	1	1 way
	2	2 way
	3	Both

Format report (103 ✓ n ✓)

Menu item	Setting	Meaning
103	0	Fast format
	1	Contact ID
	2	SIA I
	3	SIA II
	4	SIA 3
	5	Expanded SIA 3
	6	Home „beep"

Test call (105 ✓ N nn ✓)

Menu item	Setting	Meaning
105		
N nn	00	OFF
A nn		Daily at hour 01-24
B nn		Monthly at day 01-28
C nn		Every 01-24 hours
D nn		Every 01-28

106 Line loss report (106 ✓ n ✓)

Menu item	Setting	Meaning
106	0	OFF
	1	ON
	2	Silent

108 Dynamic test call (108 ☑ n ☑)

Menu item	Setting	Meaning
108	0	OFF
	1	ON

109 Three Way Call – UK only(109 ☑ n ☑)

Menu item	Setting	Meaning
109	0	OFF
	1	ON

110 Download mode (110 ☑ n ☑)

Menu item	Setting	Meaning
110	0	Local PCS
	1	Remote PC

112 Call until response - download (112 ☑ n ☑)

Menu item	Setting	Meaning
112	0	3 calls
	1	5 calls
	2	7 calls
	3	10 calls
	4	15 calls
	5	255 calls

113 1 Call - download (113 ☑ n ☑)

Menu item	Setting	Meaning
113	0	OFF
	1	ON

114 Call back mode (114 ☑ n ☑)

Menu item	Setting	Meaning
114	0	Call back OFF
	1	Secure call back
	2	Always call back

115 Telephone number 1 (115 ☑ n…n ☑)

Menu item	Setting	Meaning
115	Max. 31 characters	0..9, C + D left/right

116 Telephone number 2 (116 ☑ n…n ☑)

Menu item	Setting	Meaning
116	Max. 31 characters	0..9, C + D left/right

117 Client No. CS(117 ☑ n…n ☑)

Menu item	Setting	Meaning
117	Max. 6 characters	0..9, C + D left/right

118 RemoteTel No 1 (118 ☑ n…n ☑)

Menu item	Setting	Meaning
118	Max. 31 characters	0..9, C + D back/forwards

119 RemoteTel No 2 (119 ☑ n…n ☑)

Menu item	Setting	Meaning
119	Max. 31 characters	0..9, C + D back/forwards

120 RemoteTel Nr 3 (120 ☑ n ☑)

Menu item	Setting	Meaning
120	0	OFF
	1	ON

122 Comms Acknowledge (122 ☑ n ☑)

Menu item	Setting	Meaning
122	0	OFF
	1	ON

Only in Ireland (command 0 on X1)

123 Reset report (123 ☑ n ☑)

Menu item	Setting	Meaning
123	0	OFF
	1	ON

124 Switch open/close (124 ☑ n ☑)

Menu item	Setting	Meaning
124	0	OFF
	1	ON (switch channel 4)

Only customary in France

125 No signal „closed" (125 ☑ n ☑)

Menu item	Setting	Meaning
125	0	OFF
	1	No signal „closed" when more than 1 zone is blocked

Language setting for OSD menu (126 ☑ n ☑)

Menu item	Setting	Meaning
126	0	Lang = English
	1	Long = Italian
	2	Lang. = Spanish
	3	Lang = Port
	4	Lang = Dutch
	5	Lang = French
	6	Lang = German
	7	Lang=(NO)
	8	Lang=(SV)
	9	Lang=(DK)
	X1	Lang=(SF)

128 External alarm (128 ☑ n ☑)

Menu item	Setting	Meaning
128	0	External alarm
	1	Internal Alarm
	2	Only control unit
	3	Silent
	4	Currently blocked

129 Deactivate external (114 ☑ n ☑)

Menu item	Setting	Meaning
129	0	ON
	1	OFF

131 SIA Report mode (131 ☑ n ☑)

Menu item	Setting	Meaning
131	0	Standard
	1	Summary
	2	in between
	3	Total

132 Transmit Sabo as burglary (132 ☑ n ☑)

Menu item	Setting	Meaning
132	0	Standard SIA message (AUS)
	1	Modified SIA (ON)

133 SIA Rst (114 ☑ n ☑)

Menu item	Setting	Meaning
132	0	Do not transmit SIA resets
	1	Transmit SIA resets

143 Contact ID Report Rst (114 ☑ n ☑)

Menu item	Setting	Meaning
143	0	Standard
	1	Standard + reset

Behaviour of Additional Switch Output 1 (151 ☑ nn ☑)

Menu item	Setting	Meaning
151	00	Not used
	01	Fire to follow
	02	Panic to follow
	03	Burglary to follow
	04	Active/inactive to follow
	05	Alarm cancellation
	06	Technical alarm
	11	Network fault
	12	Sabotage to follow
	13	Active to follow
	14	Inactive to follow
	15	Zone locked
	16	Emergency alarm to follow
	17	Keybox
	18	Anti-mask
	19	Fire alarm
	20	Comms message
	21	Battery fault
	22	Alarm system
In a partitioned system		
	23	Alarm partition A
	24	Alarm partition B

	25	Alarm partition C
	26	Alarm partition D
	30	Active pulse 1
	31	Active pulse 2
	32	Active pulse 3
	33	Active pulse 4
	34	Inactive pulse 1
	35	Inactive pulse 2
	36	Inactive pulse 3
	37	Inactive pulse 4

Behaviour of Additional Switch Output 2
(152 ☑ nn ☑)

Menu item	Setting	Meaning
152	See setting	for switch output 1

Behaviour of Additional Switch Output 3
(153 ☑ nn ☑)

Menu item	Setting	Meaning
153	See setting	for switch output 1

Behaviour of Additional Switch Output 4
(154 ☑ nn ☑)

Menu item	Setting	Meaning
154	See setting	for switch output 1

Behaviour of Additional Switch Output 5
(155 ☑ nn ☑)

Menu item	Setting	Meaning
155	See setting	for switch output 1

Behaviour of Additional Switch Output 6
(156 ☑ nn ☑)

Menu item	Setting	Meaning
156	See setting	for switch output 1

Behaviour of Additional Switch Output 7
(157☑ nn ☑)

Menu item	Setting	Meaning
157	See setting	for switch output 1

Behaviour of Additional Switch Output 8
(158 ☑ nn ☑)

Menu item	Setting	Meaning
158	See setting	for switch output 1

Inversion of additional switch outputs
(159 ☑ n ☑)

Menu item	Setting	Meaning
159	0	Not inverted (+ve removed)
	1	Inverted (+ve applied)

160-164 are only permissible when 089 is set to option 1

Time-confirmed alarm (160 ☑ nnn ☑)

Menu item	Setting	Meaning
160	nnn = 000 – 999 minutes	

Confirm internal loudspeaker
(161 ☑ n ☑)

Menu item	Setting	Meaning
161	0	LS for unconfirmed alarm
	1	LS for confirmed alarm

Confirm external sirens
(162 ☑ n ☑)

Menu item	Setting	Meaning
162	0	Siren for unconfirmed alarm
	1	Siren for confirmed alarm

Confirmed alarm during entry
(163 ☑ n ☑)

Menu item	Setting	Meaning
163	0	Never
	1	1 zone
	2	2 zones

User reset after confirmed alarm
(164 ☑ n ☑)

Menu item	Setting	Meaning
164	0	User/Installer
	1	User/User
	2	Installer/Installer

Duration of active pulse 1 2 3 4
(170 ☑ n ☑ n ☑ n ☑ n ☑)

Menu item	Setting	Meaning
170	00	Latched output
	01 – 12	Pulse duration in seconds

Switch output active stable
(171 ☑ n ☑ n ☑ n ☑ n ☑)

Menu item	Setting	Meaning
171	A B C D	Activate switch output for active area

Duration of inactive pulse 1
(172 ☑ n ☑ n ☑ n ☑ n ☑)

Menu item	Setting	Meaning
172	00	latched output
	01 – 12	Pulse duration in seconds

Switch output inactive stable
(173 ☑ n ☑ n ☑ n ☑ n ☑)

Menu item	Setting	Meaning
173	A B C D	Activate switch output for inactive area

Switch output for fire
(174 ☑ n ☑ n ☑ n ☑ n ☑)

Menu item	Setting	Meaning
174	0	Switch output off
	1	Switch output on

Switch output for panic
(175 ☑ n ☑ n ☑ n ☑ n ☑)

Menu item	Setting	Meaning
175	0	Switch output off
	1	Switch output on

Call mode TWG (181 ☑ n ☑)

Menu item	Setting	Meaning
181	0	OFF
	1	ON

Last output for settling time
(182 ☑ n ☑)

Menu item	Setting	Meaning
182	07	7 seconds
	08	8 seconds
	09	9 seconds
	10	10 seconds
	11	11 seconds
	12	12 seconds

Change display time (183 ☑ n ☑)

Menu item	Setting	Meaning
183	Max. 16 locations	C/D – left / right

Fire transmitter (184 ☑ n ☑)

Menu item	Setting	Meaning
184	0	OFF
	1	ON

Auto reset key switch (185 ☑ n ☑)

Menu item	Setting	Meaning
185	0	OFF
	1	ON

Number of home „beep" calls
(186 ☑ n ☑)

Menu item	Setting	Meaning
186	nn	00 – 15

Fast format channel 1 (191 ✓ nn ✓)

Menu item	Setting	Meaning
191	00	Not used
	01	Fire to follow
	02	Panic to follow
	03	Burglary to follow
	04	Active/inactive to follow
	05	Alarm cancellation
	06	Technical alarm
	11	Network fault
	12	Sabotage to follow
	13	Active to follow
	14	Inactive to follow
	15	Zone locked
	16	Emergency alarm to follow
	17	Keybox
	18	Anti-mask
	19	Fire alarm
	20	Comms message
	21	Batteriy fault
	22	Alarm system
In partitioned system		
	23	Alarm partition A
	24	Alarm partition B
	25	Alarm partition C
	26	Alarm partition D
	30	Active pulse 1
	31	Active pulse 2
	32	Active pulse 3
	33	Active pulse 4
	34	Inactive pulse 1
	35	Inactive pulse 2
	36	Inactive pulse 3
	37	Inactive pulse 4

Fast format channel 2 (192 ✓ nn ✓)

Menu item	Setting	Meaning
192	See setting	for channel 1

Fast format channel 3 (193 ✓ nn ✓)

Menu item	Setting	Meaning
193	See setting	for channel 1

Fast format channel 4 (194 ✓ nn ✓)

Menu item	Setting	Meaning
194	See setting	for channel 1

Fast format channel 5 (195 ✓ nn ✓)

Menu item	Setting	Meaning
195	See setting	for channel 1

Fast format channel 6 (196 ✓ nn ✓)

Menu item	Setting	Meaning
196	See setting	for channel 1

Fast format channel 7 (197 ✓ nn ✓)

Menu item	Setting	Meaning
197	See setting	for channel 1

Fast format channel 8 (198 ✓ nn ✓)

Menu item	Setting	Meaning
198	See setting	for channel 1

Display of zone resistance (199 ✓)

Menu item	Setting	Meaning
199	Keys 1 + 3 zone selection	

Forbikobler entry time (200 ✓ n ✓ n ✓ n ✓ n ✓)

Menu item	Setting	Meaning
200	1	Entry delay group 1
	2	Entry delay group 2
	3	Entry delay group 3
	4	Entry delay group 4

Entry delay group 1 (201 ✓ n ✓)

Menu item	Setting	Meaning
201	1	10 seconds
	2	20 seconds
	3	30 seconds
	4	45 seconds
	5	60 seconds
	6	120 seconds

**Entry delay group 2
(202 ☑ n ☑)**
See 201

**Entry delay group 3
(203 ☑ n ☑)**
See 201

**Entry delay group 4
(204 ☑ n ☑)**
See 201

16.3   Settings in program menu

UK

000 Country Settings

Use this setting to configure the burglar alarm centre for the local country. When you load the country settings, all user-defined settings are discarded. If you only want to set the language of the control unit display, use menu item 126 (language).

At the user level, do the following:
1. On the control unit, enter: **0**

2. Enter the program code: **7890**
   The LCD display shows: Progr.Mode

3. On the control unit, enter: **000** ✓

4. The LCD display shows: 000:Land=D

5. On the control unit, enter: **0**

6. The LCD display shows: 000:Land=UK

7. On the control unit, enter: ✓

8. The control unit acknowledges your input with a double "beep" tone and shows Installer Mode

You have now made the settings for Germany. Following this setting, the values mentioned of the program overview are different from the values set on the burglar alarm centre.
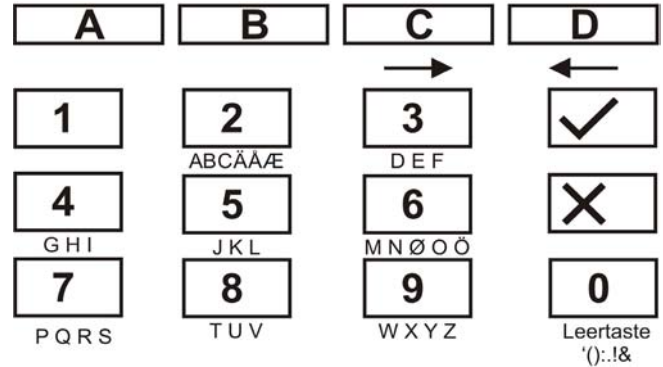
001 – 016, X17 – X32 Zone setting

Under the zone setting menu item, set the zone name and property.
From the program level, do the following:
1. On the control unit, enter: **001** ✓

2. The LCD display shows: 001: ZONE 01

3. The cursor flashes under the first letter.

4. Enter the zone name (max. 12 characters) via the keypad.

5. In the following, the zone name "EINGANG" is entered.
   On the control unit, enter:

3 3 3	-	E
C	-	next position ->
4 4 4 4	-	I
C	-	next position ->
6 6 6	-	N
C	-	next position ->
4 4	-	G
C	-	next position ->
2 2	-	A
C	-	next position ->
6 6 6	-	N
C	-	next position ->
4 4	-	G

6. If you make a mistake, you can move the cursor back by pressing the D key ⬛D⬛.

7. You can delete a letter or digit by entering a blank at the respective position with the 0 key ⬛0⬛.

8. After entering a new zone name, confirm your input.
   On the control unit, enterr: ✓.

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After entering the zone name, enter the zone property. Zone properties are explained on pages 19 and 20 of these instructions. Enter the zone property as follows:

1. Enter the zone property via the keypad as follows:

00	NU – Not Used
01	PA – Panic
02	Fr – Fire
03	NA – Immediate
04	24 – 24 hours
05	FE – Entry/exit
06	Er – Entry to follow
07	SA – Shock sensor
08	Tc – Technical zone
09	KB – Keybox
10	SD – Fire alarm
11	KM – Key switch pulse
12	KF – Key switch stable
13	AM – Anti Mask
14	FB – Forbikobler

2. After entering the zone property, enter the area for which this zone is to be monitored. For an explanation of areas, see page 20 of these instrauctinos. Enter the area via the keypad as follows:

A	This zone is monitored if area A is active. The LCD display shows: a
B	This zone is monitored if area B is active. The LCD display shows: b
C	This zone is monitored if area C is active. The LCD display shows: c
d	This zone is monitored if area D is active. The LCD display shows: d

3. Apart from the zone property and the area in which the zone is to be monitored, there are also zone attributes. Via the keypad, enter the zone attributes as follows:

X1	C – door chime The alarm centre always generates a tone on the control unit and the loudspeaker if a zone with this zone attribute is triggered. This applies only if the burglar alarm centre is deactivated. *This zone is available for zones with the properties "immediate", "entry/exit", "entry", "follow" and "shock sensor".*
X2	S – Sensor test Zones with this zone attribute are in a test function. Use this test function if you think a sensor may trigger a false alarm. This zone starts a 14-day test. If this zone triggers an alarm within 14 days, no general alarm state is declared. The sensor is removed from monitoring and a message is displayed. If the zone triggers no alarm within 14 days, the zone test ends, the zone attribute is deleted and the zone works normally again. *This zone is available for zones with the properties "immediate", "entry to follow", "technical" and "shock sensor".*
X3	D – Zone link Zones with this zone attribute first trigger an alarm when a further zone triggers an alarm with 5 minutes or if a zone is open for at least 10 seconds (e.g.: magnetic contacts). This function reduces false alarms from individual sensors to a minimum, but a burglary may be detected too late or not at all. *This zone is available for zones with the properties "immediate", "entry to follow".*
X4	O – Lock zone Zones with this zone attribute can be locked manually by the user and removed from monitoring.

4. Apart from the zone properties and zone attributes, you can make further settings for some zone properties. For example, for an "entry/exit" zone and an "entry to follow" zone, you have to define the entry delay time, and for a "shock sensor" zone, you have to define the sensitivity.. Enter the additional properties via the keypad as follows:

X7	For zones with the zone property "entry/exit" or "entry to follow", program the respective entry delay time group. Then press: 1 for delay group 1 2 for delay group 2 3 for delay group 3 4 for delay group 4
X7	For zones with the zone property "shock sensor", set the sensitivity. Then press: 1 insensitive 6 sensitive

5. Confirm your input. On the control unit, enter: ✓.

IMPORTANT: The delay time for the entry/exit zone should be longer than the delay time for the entry to follow zone.   Set the time for the entry delay time group in items 201 to 204.

020 Changing the program code
To change the program code required to open the program menu. From the program level, do the following:
1. On the control unit, enter: **020** ✓

2. The LCD display shows: 020: CODE

3. The cursor flashes at the end of the setting.

4. Enter the new four-digit program code via the keypad.

5. Confirm your input. On the control unit, enter: ✓.

6. The control unit acknowledges your input with a double "beep" tone and shows Installer Mode.

021 Changing the zone termination
For changing the zone termination for the inputs of the burglar alarm centre. From the program level, do the following:
1. On the control unit, enter: **021** ✓

2. The LCD display shows: 021:CC+ComA/T

3. Via the keypad, select from the following items and press:

00	CC+ComA/T For this zone termination, no resistor can be inserted in the alarm zone. An alarm is triggered if the zone is opened. The tamper contact of the sensor must be connected separately to the burglar alarm centre. See the connection diagrams for connecting with CC+ComA/T..
01	FSL 2K2/4K7 For this zone termination, two resistors with different values must be used. The burglar alarm centre triggers alarm or tampering, depending on which resistance value is changed. The tamper input at the alarm centre is out of action. See the connection diagrams for connecting with DEOL.

4. Confirm your input. On the control unit, enter: ✓.

5. The control unit acknowledges your input with a double "beep" tone and shows Installer Mode.

022 Changing the volume for internal alarm

For changing the zone termination for the inputs of the burglar alarm centre. From the program level, do the following:

1. On the control unit, enter: **022** ✓

2. The LCD display shows: 022:ChimeVol=5

3. Via the keypad, select from the following items and press:

0-9	ChimeVol Specify the volume of the internal alarm issued via the control unit and the (optional) loudspeaker. Press: 0 off 1 quiet 9 loud

4. Confirm your input. On the control unit, enter: ✓ .

5. The control unit acknowledges your input with a double "beep" tone and shows Installer Mode.

023 Remote reset

This function allows a remote reset via the COM interface or the PC connection. IMPORTANT: System reset by installer must be activated (function 33 to 1) and CSID (function 50) must be set.

1. On the control unit, enter: **023** ✓

2. The LCD display shows: 023:RemReset OFF

3. Via the keypad, select from the following items and press:

0	RemReset OFF Fern Reset AUS
1	RemReset ON Fern Reset AN

4. Confirm your input. On the control unit, enter: ✓ .

5. The control unit acknowledges your input with a double "beep" tone and shows Installer Mode.

After the alarm, the user can switch off the alarm using the access code, although he can not reset the alarm centre. The user contacts the central station which identifies him and transmits a signal back to the alarm centre. The user can now carry out a reset.

024 Account name

This function shows you the account name. From the program level, do the following:

1. On the control unit, enter: **024** ✓

2. Via ✕ you leave the menu.

3. The control unit shows Installer Mode.

025 Internal alarm

To change the property of the internal alarm:

1. On the control unit, enter: **025** ✓

2. The LCD display shows: 025:LS Timed

3. Via the keypad, select from the following items and press:

0	LS Timed The internal alarm follows the entered times for the external siren
1	LS Cont The internal alarm sounds until the alarm centre is deactivated.

4. Confirm your input. On the control unit, enter: ✓ .

5. The control unit acknowledges your input with a double "beep" tone and shows Installer Mode.

027 Alarm on failed activation

To change the property of the alarm on failed activation, proceed as follows:

1. On the control unit, enter: **027** ✓

2. The LCD display shows: 027:Internal

3. Via the keypad, select from the following items and press:

0	Internal If activation fails, the alarm is issued via the internal signaller.
1	Local If activation fails, the alarm is also issued via the external siren.

4. Confirm your input. On the control unit, enter: ✓.

5. The control unit acknowledges your input with a double "beep" tone and shows Installer Mode.

028 Status display

Proceed as follows to change the property of the status display:

1. On the control unit, enter: **028** ✓

2. The LCD display shows: 028:Status OFF

3. Via the keypad, select from the following items and press:

0	Status OFF The display is permanently on. The system always shows whether the alarm centre is activated or deactivated.
1	Status ON The status display of the alarm centre remains active for 180 seconds after entry of the user code, and then changes to date and time display.
2	Status Code 30 seconds after each event, the display changes back to date and time display. Note that the LEDs also light for 30 seconds.

4. Confirm your input. On the control unit, enter: ✓.

5. The control unit acknowledges your input with a double "beep" tone and shows Installer Mode.

029 Entry alarm delay

Proceed as follows to change the property of the entry alarm delay:

1. On the control unit, enter: **029** ✓

2. The LCD display shows: 029:Delay OFF

3. Via the keypad, select from the following items and press:

0	Delay OFF The alarm centre generates an immediate alarm if the user deviates from the specified entry route.
1	Delay ON The alarm centre extends the entry delay by 30 seconds if the user deviates from the specified entry route. An internal alarm is triggered to inform the user that he/she has made a mistake. If the user code is entered within the delay time, a local alarm is prevented and the alarm centre is reset.

4. Confirm your input. On the control unit, enter: ✓.

5. The control unit acknowledges your input with a double "beep" tone and shows Installer Mode.

030 Panic silent

To change the property of the silent panic alarm:

1. On the control unit, enter: **030** ☑

2. The LCD display shows: 030:PA audible

3. Via the keypad, select from the following items and press:

0	PA audible When a panic alarm is triggered, the alarm centre generates a local alarm.
1	PA silent When a panic alarm is triggered, the alarm centre generates no local alarm. The alarm is issued only via the relay contacts and via the optional dialler.

4. Confirm your input. On the control unit, enter: ☑.

5. The control unit acknowledges your input with a double "beep" tone and shows Installer Mode.

031 Zone tamper

Proceed as follows to change the property of zone tampering:

1. On the control unit, enter: **031** ☑

2. The LCD display shows: 031:EngTmpRstOFF

3. Via the keypad, select from the following items and press:

0	EngTmpRstOFF No program code necessary (OFF). If a tamper alarm is triggered, you only have to enter the user code to acknowledge the tamper message.
1	EngTmpRstON Program code required (ON) If a tamper alarm is triggered, you have to enter the user code to deactivate the alarm and then the program code to delete the tamper alarm.

4. Confirm your input. On the control unit, enter: ☑.

5. The control unit acknowledges your input with a double "beep" tone and shows Installer Mode.

032 Control units and partitions

If you have created a partitioned system then using this function, you can assign entry/exit zones, alarm zones and status displays of partitions to the control units. To change this feature, proceed as follows:

1. On the control unit, enter: **032** ☑

2. The LCD display shows: 032: Keypd 1 abcd

3. Via the keypad, select from the following items and press:

A	Assignment of control unit 1 to partition A
B	Assignment of control unit 1 to partition B
C	Assignment of control unit 1 to partition C
D	Assignment of control unit 1 to partition D

4. Confirm your input. On the control unit, enter: ☑.

5. The control unit acknowledges your input with a double "beep" tone and shows Installer Mode.

Repeat these steps for the remaining control units.
(1. Basic setting: all control units belong to all partitions. 2. Key switches connected to control units can not be individually assigned to partitions. 3. Panic alarms apply to all partitions.

033 System Reset

To change the property of the system reset:

1. On the control unit, enter: **033** ☑

2. The LCD display shows: 033: EngReset OFF

3. Via the keypad, select from the following items and press:

0	EngReset OFF If a system error is displayed, you only have to enter the user code to

	acknowledge the message.
1	EngReset OFF If a system error is displayed, you have to enter the program code to acknowledge the message.

Note:
Some events always require you to enter the program code. These are:
Failure/fault of a control unit
Failure of 12V power supply
Low battery in the alarm centre

4. Confirm your input. On the control unit, enter: ☑.

5. The control unit acknowledges your input with a double "beep" tone and shows Installer Mode.

034 Panic Reset
Proceed as follows to change the property of the panic reset:
1. On the control unit, enter: **034** ☑

2. The LCD display shows: 034:PA Cust Rst

3. Via the keypad, select from the following items and press:

0	PA Cust Rst To reset a panic alarm, you only have to enter a valid user code.
1	PA Eng Rst To reset a panic alarm, you have to enter the user code to deactivate the alarm and then the program code to delete the panic alarm.

4. Confirm your input. On the control unit, enter: ☑.

5. The control unit acknowledges your input with a double "beep" tone and shows Installer Mode.

035 First alarm reaction
Proceed as follows to change the property of the first alarm reaction:
1. On the control unit, enter: **035** ☑

2. The LCD display shows: 035:Lock-out ON

3. Via the keypad, select from the following items and press:

0	Lock-out ON When the alarm time expires (alarm time of the local alarm of the external siren), the alarm centre is reactivated. The zone that triggered the alarm is no longer monitored.
1	Re-arm When the alarm time expires (alarm time of the local alarm of the external siren), the alarm centre is reactivated. The zone that triggered the alarm is monitored again.

4. Confirm your input. On the control unit, enter: ☑.

5. The control unit acknowledges your input with a double "beep" tone and shows Installer mode.

036 Alarm cancellation
Sometimes users trigger a false alarm. To change the property of the alarm cancellation:
1. On the control unit, enter: **036** ☑

2. The LCD display shows: 036: Abort OFF

3. Via the keypad, select from the following items and press:

0	Abort OFF Cancellation by the user is not allowed.
1	Abort ON Users are allowed to cancel an alarm.

4. Confirm your input. On the control unit, enter: ☑.

5. The control unit acknowledges your input with a double "beep" tone and shows Installer Mode.

037 Sabotage Report deactivated
To change this feature, proceed as follows:
1. On the control unit, enter: **037** ☑
2. The LCD display shows: 037:Day Tamp OFF
3. Via the keypad, select from the following items and press:

0	Day Tamp OFF In case of tampering when the alarm centre is deactivated, this only issues an internal alarm.
1	Day Tamp ON In case of tampering when the alarm centre is deactivated, this issues an internal alarm and reports the tampering to the central station.

4. Confirm your input. On the control unit, enter: ☑.
5. The control unit acknowledges your input with a double "beep" tone and shows Installer Mode.

038 System Sabotage Reset
To change the property of the System Sabotage Reset:
1. On the control unit, enter: **038** ☑
2. The LCD display shows: 038: EnSysTmp ON
3. Via the keypad, select from the following items and press:

0	EnSysTmp OFF In the event of a system sabotage, you can reset the alarm centre by entering the user code.
1	EnSysTmp ON In the event of a system sabotage, you can reset the alarm centre by entering the installer code.

4. Confirm your input. On the control unit, enter: ☑.

5. The control unit acknowledges your input with a double "beep" tone and shows Installer Mode.

039 Exit mode for overall activated (A)
To change the property of the exit mode for overall activated:
1. On the control unit, enter: **039** ☑
2. The LCD display shows: 039: A=Timed
3. Via the keypad, select from the following items and press:

0	A=Timed After the alarm centre is activated, the programmed exit delay time starts. At the end of the delay time, the alarm centre is activated. If zones are open at this time, an alarm is triggered.
1	A=Terminated After the alarm centre is activated, the exit delay time starts. The delay time runs until a button connected to a control unit is pressed, which ends the exit delay time manually. The exit delay time ends seven seconds after the button is pressed.
2	A=Final Door After the alarm centre is activated, the exit delay time starts. The delay time runs until a zone with the entry/exit property is closed. The exit delay time ends seven seconds after the zone is closed.
3	A=Lock Set After the alarm centre is activated, the delay time starts. The delay time runs until a zone with the entry/exit property is closed and, after the zone has closed, a contact connected to the control unit is opened.

4. Confirm your input. On the control unit, enter: ☑.

5. The control unit acknowledges your input with a double "beep" tone and shows Installer Mode.

040 System Rearm

To change the property of the siren duration:

1. On the control unit, enter: **040** ☑

2. The LCD display shows: 040:Rearm=Never

3. Via the keypad, select from the following items and press:

0	Rearm=Never If an alarm is triggered, the alarm is sounded until the defined alarm time of the external signaller. If a second sensor reports another alarm following expiry of the defined alarm time, no second alarm is triggered.
1-4	Rearm 1-4/Always If an alarm is triggered, the alarm is sounded until the defined alarm time of the external signaller. The alarm centre rearms itself once, twice, three times or always, depending on the value entered. A new alarm reports triggers a new alarm.

4. Confirm your input. On the control unit, enter: ☑.

5. The control unit acknowledges your input with a double "beep" tone and shows Installer Mode.

041 Siren delay

Proceed as follows to change the property of the siren delay:

1. On the control unit, enter: **041** ☑

2. The LCD display shows: 041:Bell Dly=0

3. Via the keypad, select from the following items and press:

0	Bell Dly=0 After an alarm is triggered, a local alarm is started without delay.
1	Bell Dly=1.5 After an alarm is triggered, a local alarm is activated after a delay of 1.5 minutes.
2	Bell Dly=3 After an alarm is triggered, a local alarm is activated after a delay of 3 minutes.
3	Bell Dly=5 After an alarm is triggered, a local alarm is activated after a delay of 5 minutes.
4	Bell Dly=10 After an alarm is triggered, a local alarm is activated after a delay of 10 minutes.
5	Bell Dly=15 After an alarm is triggered, a local alarm is activated after a delay of 15 minutes.
6	Bell Dly=20 After an alarm is triggered, a local alarm is activated after a delay of 20 minutes.

4. Confirm your input. On the control unit, enter: ☑.

5. The control unit acknowledges your input with a double "beep" tone and shows Installer Mode.

042 Siren duration

To change the property of the siren duration:

1. On the control unit, enter: **042** ☑

2. The LCD display shows: 042:Bell On=20

3. Via the keypad, select from the following items and press:

1	Bell On=1.5 If an alarm is triggered, the local alarm is activated for 1.5 minutes.
2	Bell On =3 If an alarm is triggered, the local alarm is activated for 3 minutes.
3	Bell On =5 If an alarm is triggered, the local alarm is activated for 5 minutes.
4	Bell On =10 If an alarm is triggered, the local alarm is activated for 10 minutes.
5	Bell On =15 If an alarm is triggered, the local alarm is activated for 15 minutes.
6	Bell On =20 If an alarm is triggered, the local alarm is activated for 20 minutes.

4. Confirm your input. On the control unit, enter: ☑ .

5. The control unit acknowledges your input with a double "beep" tone and shows Installer Mode.

044 Exit delay time A

To change the property of the exit mode for overall active A:

1. On the control unit, enter: **044** ☑

2. The LCD display shows: 044:Exit A=20

3. Via the keypad, select from the following items and press:

1	Exit A=10 Exit delay time for overall active is 10 seconds.
2	Exit A=20 Exit delay time for overall active is 20 seconds.
3	Exit A=30 Exit delay time for overall active is 30 seconds.
4	Exit A=45 Exit delay time for overall active is 45 seconds.
5	Exit A=60 Exit delay time for overall active is 60 seconds.
6	Exit A=120 Exit delay time for overall active is 120 seconds.

4. Confirm your input. On the control unit, enter: ☑ .

5. The control unit acknowledges your input with a double "beep" tone and shows Installer mode.

UK

045 Entry/exit delay tone volume

To change the property of the entry/exit delay tone volume:

1. On the control unit, enter: **045** ✓
2. The LCD display shows: 045:EE VOL=5
3. Via the keypad, select from the following items and press:

0	EE VOL=OFF Entry/exit delay tone off
1-9	EE Vol=1 / 2 / 3 / 4 / 5 / 6 / 7 / 8 / 9 Entry/exit delay tone quiet (1) to loud (9)

4. Confirm your input. On the control unit, enter: ✓.
5. The control unit acknowledges your input with a double "beep" tone and shows Installer Mode.

046 Tamper alarm

To change the property of the tamper alarm for a deactivated alarm centre:

1. On the control unit, enter: **046** ✓
2. The LCD display shows: 046: Int+RKP
3. Via the keypad, select from the following items and press:

0	Internal Following a tamper alarm when the alarm centre is deactivated, only the intern alarm is triggered.
1	Keypad Following a tamper alarm when the alarm centre is deactivated, the control unit is triggered.
2	Int+RKP Following a tamper alarm when the alarm centre is deactivated, the control unit and the internal alarm are triggered.

4. Confirm your input. On the control unit, enter: ✓.

5. The control unit acknowledges your input with a double "beep" tone and shows Installer Mode.

047 Partition A alarm Reaction

To change this feature, proceed as follows:

1. On the control unit, enter: **047** ✓
2. The LCD display shows: 047:A=Keypad
3. Via the keypad, select from the following items and press:

0	A = Keypad Control unit alarm
1	A = Local Control unit + loudspeaker
2	A = Full Control unit + loudspeaker + dial module

4. Confirm your input. On the control unit, enter: ✓.
5. The control unit acknowledges your input with a double "beep" tone and shows Installer Mode.

048 Control unit lock

If you want to allow the user to deactivate the system using a proximity chip key then the control unit must be locked (UF, FE, MD, code entry, false alarm cancellation, inactive on alarm once more active). To change the property of the control unit lock, proceed as follows:

1. On the control unit, enter: **048** ✓
2. The LCD display shows: 048: Code Lk OFF
3. Via the keypad, select from the following items and press:

0	Code Lk OFF The system allows all users to use all control units during the entry.
1	Code Lk ON During entry, the system locks access to the control units from all users.

4. Confirm your input. On the control unit, enter: ☑.

5. The control unit acknowledges your input with a double "beep" tone and shows Installer Mode.

050 CSID code

To be able to use the remote reset function, you must set the alarm centres to installer reset (function 33 to 1) and assign the CSID code. To change the CSID code for a deactivated alarm centre:

1. On the control unit, enter: **050** ☑

2. The LCD display shows: 050: CSID   _

3. Via the keypad, enter the code. Enter 0 0 0 0 to delete the code.

4. Confirm your input. On the control unit, enter: ☑.

5. The control unit acknowledges your input with a double "beep" tone and shows Installer Mode.

051 Date and time

Proceed as follows to change the date and time:

1. On the control unit, enter: **051** ☑

2. The LCD display can show: 051: D03 M02 Y05

3. Via the keypad, select from the following items and enter the date:

4. Confirm your input with ☑.

5. Enter the month via the keypad. (January to September = 01 to 09)

6. Confirm your input with ☑.

7. Enter the year via the keypad.

8. Confirm your input with ☑.

9. The display changes; now enter the hour via the keypad.

10. Confirm your input with ☑.

11. Enter the minute via the keypad.

12. Confirm your input with ☑.

13. The control unit acknowledges your input with a double "beep" tone and shows Installer Mode.

052 Block tamper

Proceed as follows to change the property of the tamper alarm:

1. On the control unit, enter: **052** ☑

2. The LCD display shows: 052:Omit Alarm

3. Via the keypad, select from the following items and press:

0	Omit Alarm You can only block some zones; a tamper zone or a tamper alarm cannot be blocked.
1	Omit Al+Tamp You can block some zones and tamper zones or a tamper alarm from monitoring.

4. Confirm your input. On the control unit, enter: ☑.

5. The control unit acknowledges your input with a double "beep" tone and shows Installer Mode.

053 Cancel - Reset

To change the property of the alarm reset:

1. On the control unit, enter: **053** ☑

2. The LCD display shows: 053:Abort=System

3. Via the keypad, select from the following items and press:

0	Abort=System Resetting after a cancelled alarm is as set in function 33.
1	Abort=User The user may make a reset after a cancelled alarm.

4. Confirm your input. On the control unit, enter: ☑.

5. The control unit acknowledges your input with a double "beep" tone and shows Installer Mode.

054 BVVO monitoring

To change the property of the BVVO monitoring:
1. On the control unit, enter: **054** ☑

2. The LCD display shows: 054: BVVO Sup OFF

3. Via the keypad, select from the following items and press:

0	BVVO Sup OFF If a radio transmitter can no longer be reached by the alarm centre then this reports a monitoring error after 1 hour (see function 128).
1	BVVO Sup ON If a radio transmitter can not be reached for more than 15 minutes then a warning is displayed on the control unit if an attempt is made to activate it. If the transmitter can not be reached for more than 2 hours then the alarm centre reports: „detector tampering", (when activated) external alram; „monitoring error", (when deactivated) internal alarm.

4. Confirm your input. On the control unit, enter: ☑.

5. The control unit acknowledges your input with a double "beep" tone and shows Installer Mode.

056 Length of access code

To change the property of the length of the access code:
1. On the control unit, enter: **056** ☑

2. The LCD display shows: 056: 4 Digit

3. Via the keypad, select from the following items and press:

0	4 Digit
1	6 Digit

4. Confirm your input. On the control unit, enter: ☑.

5. The control unit acknowledges your input with a double "beep" tone and shows Installer Mode.

IMPORTANT: Changing the length of the access code requires that all codes be reset to the factory settings. From the factory: 4 numbers (1234 for user, 7890 for installer); 6 numbers (123456 for user, 567890 for installer).

057 Battery test

To change the property of the battery test:
1. On the control unit, enter: **057** ☑

2. The LCD display shows: 057: BattTest OFF

3. Via the keypad, select from the following items and press:

0	BattTest OFF No battery test is carried out.
1	BattTest ON A battery test is carried out if deactivated or 23 hours after the last test (neg.: display „battery fault" in the control unit + short tone)

4. Confirm your input. On the control unit, enter: ☑.

5. The control unit acknowledges your input with a double "beep" tone and shows Installer Mode.

058 BVVO Sabotage reset

Proceed as follows to change the property of the BVVO sabotage reset:

1. On the control unit, enter: **058** ☑
2. The LCD display shows: 058: BVVOtamp OFF
3. Via the keypad, select from the following items and press:

0	BVVOtamp OFF The user can carry out a reset in case of tampering when the alarm centre is deactivated.
1	BVVOtamp OFF If the alarm centre is deactivated in case of tampering then an installer reset is required.

4. Confirm your input. On the control unit, enter: ☑.
5. The control unit acknowledges your input with a double "beep" tone and shows Installer Mode.

059 Sabotage siren

Proceed as follows to change the property of the sabotage siren:

1. On the control unit, enter: **059** ☑
2. The LCD display shows: 059: BellTamp=NEG
3. Via the keypad, select from the following items and press:

0	BellTamp=NEG There is no resistor in the sabotage loop (NC)
1	BellTamp=EOL The sabotage loop is protected by a 2.2kOhm resistor (EOL)

4. Confirm your input. On the control unit, enter: ☑.
5. The control unit acknowledges your input with a double "beep" tone and shows Installer Mode.

060 Entry/exit behaviour on internal active (B)

To change the zone property of the entry/exit zone at internal active (B):

1. On the control unit, enter: **060** ☑
2. The LCD display shows: 060: B=FE =FE
3. Via the keypad, select from the following items and press:

0	B=FE =FE A zone programmed as entry/exit keeps this property even for internal activation and thus starts the entry delay time when the zone triggers and during active internal activation.
1	B=FE = NA A zone programmed as entry/exit changes its zone property during internal activation to immediate and triggers an alarm if the zone triggers and during active internal activation.

4. Confirm your input. On the control unit, enter: ☑.
5. The control unit acknowledges your input with a double "beep" tone and shows Installer Mode.

061 Entry to follow behaviour on internal active (B)

To change the zone property for internal active (B):

1. On the control unit, enter: **061** ☑
2. The LCD display shows: 061: B=ER =ER
3. Via the keypad, select from the following items and press:

0	B=ER =ER A zone programmed as entry to follow keeps this property even during internal activation and permits entry to this zone during the entry delay period.
1	B=ER = FE A zone programmed as entry to follow

| | changes its zone property during internal activation to entry/exit and starts the delay time if the zone triggers and during active internal activation. |

4. Confirm your input. On the control unit, enter: ✓.

5. The control unit acknowledges your input with a double "beep" tone and shows Installer Mode.

062 Behaviour of exist mode internal active (B)

To change the property of the exit mode for internal active (B):

1. On the control unit, enter: **062** ✓

2. The LCD display shows: 062: B=LEISE

3. Via the keypad, select from the following items and press:

0	Low Tone The acoustic signal during the exit delay time is emitted at half volume.
1	Instant During internal activation, the alarm centre is internally activated immediately – i.e., without delay.
2	Silent No acoustic signal is emitted during the delay time. Following expiry of the delay time, the alarm centre emits a brief signal.
3	B=A The initial mode for internal active B is as for the initial mode of overall active A
In a partitioned system	
0	B=Timed Activation of partition B after exit time (command 65). A connected key switch at the control unit shortens the exit time when activated
1	B=Terminated Activated via key switch connected to the control unit. The exit time is

	unlimited.
2	B=Final Door Activation of the partition by closing the last door detector
3	B=Instant Active without delay time
4	B=Silent Use command 65 for the exit time. The control unit emits a double beep when the time has expired.
5	B=Lock Set Key switch (see command 39)

4. Confirm your input. On the control unit, enter: ✓.

5. The control unit acknowledges your input with a double "beep" tone and shows Installer Mode.

063 Alarm behaviour for internal active (B)

To change the alarm property for internal active (B):

1. On the control unit, enter: **063** ✓

2. The LCD display shows: 063: B=Keypad

3. Via the keypad, select from the following items and press:

0	B=Keypad Only the control units are activated.
1	B=Internal On alarm, the control units and the internal alarm are activated.
2	B=Local On alarm, the control units, the internal alarm and the external siren are activated.
3	B=Full On alarm, the control units, the internal signalling, the external sirens and the telephone dialler are activated.
In a partitioned system	
0	B=Keypad Only the control units are activated.
1	B=Local On alarm, the control units, the internal

	alarm and the external siren are activated.
2	B=Full On alarm, the control units, the internal signalling, the external sirens and the telephone dialler are activated.

4. Confirm your input. On the control unit, enter: ☑ .

5. The control unit acknowledges your input with a double "beep" tone and shows Installer Mode.

065 Exit delay time internal B

To change the property of the exit delay time for internal active B:

1. On the control unit, enter: **065** ☑

2. The LCD display shows: 065: Exit B=20

3. Via the keypad, select from the following items and press:

1	Exit B=10 Exit delay time for internal active B is 10 seconds.
2	Exit B=20 Exit delay time for internal active B is 20 seconds.
3	Exit B=30 Exit delay time for internal active B is 30 seconds.
4	Exit B=45 Exit delay time for internal active B is 45 seconds.
5	Exit B=60 Exit delay time for internal active B is 60 seconds.
6	Exit B=120 Exit delay time for internal active B is 120 seconds.

4. Confirm your input. On the control unit, enter: ☑ .

5. The control unit acknowledges your input with a double "beep" tone and shows Installer Mode.

066 Forbikobler partitions

To change this property (only possible in partitioned systems):

1. On the control unit, enter: **066** ☑

2. The LCD display shows: 066:Forbi 1 abcd

3. Via the keypad, select from the following items and press:

A	Assign control unit of partition A.
B	Assign control unit of partition B.
C	Assign control unit of partition C.
D	Assign control unit of partition D.

4. Confirm your input. On the control unit, enter: ☑ .

5. Repeat these steps for the remaining Forbikobler control units.

6. The control unit acknowledges your input with a double "beep" tone and shows Installer Mode.

067 Forbikobler correct

Proceed as follows to change the property of the Forbikobler correct:

1. On the control unit, enter: **067** ☑

2. The LCD display shows: 067:Frb=Non-Appr

3. Via the keypad, select from the following items and press:

0	Frb=Non-Appr Proximity code key and user codes are allowed for the access.
1	Frb=Approved Only user codes are allowed for the access (correct).

4. Confirm your input. On the control unit, enter: ☑ .

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5. The control unit acknowledges your input with a double "beep" tone and shows Installer mode.

068 Forbikobler entry time

This function sets the time that the Forbikobler system allows for entry. An optional output for a door lock can be connected during this time. To change the property of the Forbikobler entry time:

1. On the control unit, enter: **068** ✓

2. The LCD display shows: 068: Door Tm=5

3. Via the keypad, select from the following items and press:

0	Door Tm=5 2 seconds
1	Door Tm=3 3 seconds
2	Door Tm=4 4 seconds
3	Door Tm=5 5 seconds
4	Door Tm=10 10 seconds
5	Door Tm=20 20 seconds
6	Door Tm=30 30 seconds
7	Door Tm=60 60 seconds
8	Door Tm=120 120 seconds
9	Door Tm=255 255 seconds

4. Confirm your input. On the control unit, enter: ✓.

5. The control unit acknowledges your input with a double "beep" tone and shows Installer Mode.

069 Forbikobler door lock

Proceed as follows to change the property of the Forbikobler door lock:

1. On the control unit, enter: **069** ✓

2. The LCD display shows: 069: Lock Timed

3. Via the keypad, select from the following items and press:

0	Lock Timed The door lock controlled by the Forbikobler system is only open for a certain time during the reset.
1	Lock Toggled The door lock controlled by the Forbikobler system is open during the reset.

4. Confirm your input. On the control unit, enter: ✓.

5. The control unit acknowledges your input with a double "beep" tone and shows Installer Mode.

070 Entry/exit behaviour on internal active (C)

To change the zone property of the entry/exit zone at internal active (C):

1. On the control unit, enter: **070** ✓

2. The LCD display shows: 070: C=FE = FE

3. Via the keypad, select from the following items and press:

0	C=FE = FE A zone programmed as entry/exit keeps this property even for internal activation and thus starts the entry delay time when the zone triggers and during active internal activation.
1	C=FE = NA A zone programmed as entry/exit changes its zone property during internal activation to immediate and triggers an alarm if the zone triggers and during active internal activation.

4. Confirm your input. On the control unit, enter: ☑.

5. The control unit acknowledges your input with a double "beep" tone and shows Installer Mode.

071 Entry to follow behaviour on internal active (C)

To change the zone property of the entry to follow zone at internal active (C):

1. On the control unit, enter: **071** ☑

2. The LCD display shows: 071: C=ER =ER

3. Via the keypad, select from the following items and press:

0	C=ER =ER A zone programmed as entry to follow keeps this property even during internal activation and permits entry to this zone during the entry delay period.
1	C=FE = FE A zone programmed as entry to follow changes its zone property during internal activation to entry/exit and starts the delay time if the zone triggers and during active internal activation.

4. Confirm your input. On the control unit, enter: ☑.

5. The control unit acknowledges your input with a double "beep" tone and shows Installer Mode.

072 Behaviour of exit mode internal (C)

To change the property of the exit mode for internal active (C):

1. On the control unit, enter: **072** ☑

2. The LCD display shows: 072: C=Low Tone

3. Via the keypad, select from the following items and press:

0	C=Low Tone The acoustic signal during the exit delay time is emitted at half volume.
1	C=Instant During internal activation, the alarm centre is internally activated immediately – i.e., without delay.
2	C=Silent No acoustic signal is emitted during the delay time. Following expiry of the delay time, the alarm centre emits a brief signal.
3	C=A The initial mode for internal active B is as for the initial mode of overall active A
In a partitioned system	
0	C=Timed Activation of partition C after exit time (command 75). A connected key switch at the control unit shortens the exit time when activated
1	C=Terminated Activated via key switch connected to the control unit. The exit time is unlimited.
2	C=Final Door Activation of the partition by closing a last door detector
3	C=Instant Active without delay time
4	C=Silent Use command 75 for the exit time. The control unit emits a double beep when the time has expired.
5	C=Lock Set

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Key switch (see command)

4. Confirm your input. On the control unit, enter: ☑ .

5. The control unit acknowledges your input with a double "beep" tone and shows Installer Mode.

073 Alarm behaviour for internal (C)

To change the alarm property for internal active (C):

1. On the control unit, enter: **073** ☑

2. The LCD display shows: 073: C = Internal

3. Via the keypad, select from the following items and press:

0	C=Keypad Only the control units are activated.
1	C=Internal On alarm, the control units and the internal alarm are activated.
2	C=Local On alarm, the control units, the internal alarm and the external siren are activated.
3	C=Full On alarm, the control units, the internal signalling, the external sirens and the exits are activated.
In a partitioned system	
0	C=Keypad Only the control units are activated.
1	C=Local On alarm, the control units, the internal alarm and external sirens are activated.
2	C=Full Control unit + internal + external + telephone dialler

4. Confirm your input. On the control unit, enter: ☑ .

5. The control unit acknowledges your input with a double "beep" tone and shows Installer Mode.

075 Exit delay time internal C

To change the property of the exit delay time for internal active C:

1. On the control unit, enter: **075** ☑

2. The LCD display shows: 075: E C=10

3. Via the keypad, select from the following items and press:

1	Exit C=10 Exit delay time for internal active C is 10 seconds.
2	Exit C=20 Exit delay time for internal active C is 20 seconds.
3	Exit C=30 Exit delay time for internal active C is 30 seconds.
4	Exit C=45 Exit delay time for internal active C is 45 seconds.
5	Exit C=60 Exit delay time for internal active C is 60 seconds.
6	Exit C=120 Exit delay time for internal active C is 120 seconds.

4. Confirm your input. On the control unit, enter: ☑ .

5. The control unit acknowledges your input with a double "beep" tone and shows Installer mode.

076 Behaviour of exit mode internal (D)

To change the property of the exit mode for internal active (D):

1. On the control unit, enter: **076** ✓
2. The LCD display shows: 076: D=Low Tone
3. Via the keypad, select from the following items and press:

0	D=Low Tone The acoustic signal during the exit delay time is emitted at half volume.
1	D=Instant During internal activation, the alarm centre is internally activated immediately – i.e., without delay.
2	D=Silent No acoustic signal is emitted during the delay time. Following expiry of the delay time, the alarm centre emits a brief signal.
3	D=A The initial mode for internal active B is as for the initial mode of overall active A
In a partitioned system	
0	D=Timed Activation of partition D after exit time (command 79). A connected key switch at the control unit shortens the exit time when activated
1	D=Terminated Activated via key switch connected to the control unit. The exit time is unlimited.
2	D=Final Door Activation of the partition by closing the last door detector
3	D=Instant Active without delay time
4	D=Silent Use command 79 for the exit time. The control unit emits a double beep when the time has expired.

5	D=Lock Set Key switch (see command 39)

4. Confirm your input. On the control unit, enter: ✓.
5. The control unit acknowledges your input with a double "beep" tone and shows Installer Mode.

077 Alarm behaviour for internal (D)

To change the alarm property for internal active (D):

1. On the control unit, enter: **077** ✓
2. The LCD display shows: 077: D = Internal
3. Via the keypad, select from the following items and press:

0	D=Keypad Only the control units are activated.
1	D=Internal On alarm, the control units and the internal alarm are activated.
2	D=Local On alarm, the control units, the internal alarm and the external siren are activated.
3	D=Full On alarm, the control units, the internal signalling, the external sirens and the exits are activated.
In a partitioned system	
0	D=Keypad Only the control units are activated.
1	D=Local On alarm, the control units, the internal alarm and external sirens are activated.
2	D=Full Control unit + internal + external + telephone dialler

4. Confirm your input. On the control unit, enter: ✓.
5. The control unit acknowledges your input with a double "beep" tone and shows Installer Mode.

079 Exit delay time internal D

To change the property of the exit delay time for internal active D:

1. On the control unit, enter: **079** ✓

2. The LCD display shows: 079: Exit D=10

3. Via the keypad, select from the following items and press:

1	Exit D=10 Exit delay time for internal active D: 10 seconds.
2	Exit D=20 Exit delay time for internal active D: 20 seconds.
3	Exit D=30 Exit delay time for internal active D: 30 seconds.
4	Exit D=45 Exit delay time for internal active D: 45 seconds.
5	Exit D=60 Exit delay time for internal active D: 60 seconds.
6	Exit D=120 Exit delay time for internal active D: 120 seconds.

4. Confirm your input. On the control unit, enter: ✓.

5. The control unit acknowledges your input with a double "beep" tone and shows Installer Mode.

080 Forbikobler door bell

Proceed as follows to change the property of the Forbikobler door bell:

1. On the control unit, enter: **080** ✓

2. The LCD display shows: 080: Chime OFF

3. Via the keypad, select from the following items and press:

0	Chime OFF Pressing the Forbikobler door bell does not activate the loudspeaker of the alarm centre.
1	Chime ON Pressing the Forbikobler door bell activates the loudspeaker of the alarm centre.

4. Confirm your input. On the control unit, enter: ✓.

5. The control unit acknowledges your input with a double "beep" tone and shows Installer Mode.

081 Relay output OP1

To change the behaviour of relay output OP1 on the alarm centre PCB:

1. On the control unit, enter: **081** ☑

2. The LCD display shows: 081: Bell

3. Via the keypad, select from the following items and press:

00	Bell This output is activated at local and external alarms. Set the siren delay and duration in menu items 41 and 42.
01	EE Follow This output is activated if the entry/exit delay is active. Note that this output is not activated if the exit mode "internal" is programmed to "silent" or "immediate".
02	Armed Lamp This output is activated if the alarm centre is completely or internally activated.
03	Set Latch This output is activated if the alarm centre is completely or internally activated. The output is also activated if the alarm centre is reset or if a walk test is started.
04	Shock sensor reset This output is activated for 5 seconds at the start of the exit delay.
05	Walk Test This output is activated during the user and programmer walk test. The output is connected to the walk test input of the motion sensor.
06	Ready Lamp This output is activated if the alarm centre is ready for complete or internal activation. The alarm centre is ready even if the zones with the properties "entry/exit" or "entry to follow" are opened.

07	24 Hour This output is activated if a 24-hour zone triggers an alarm. The output is deactivated if the alarm centre is deactivated.
08	Strobe This output is activated if a local or external alarm is triggered. The output remains active until the alarm centre is deactivated.
09	Smoke Reset This output is used to reset smoke detectors. This output is activated for at least 3 seconds following every deactivation and reset of the alarm centre following an alarm.
10	Siren Test This output is activated following programming and during a siren test (command 91 in the program menu).
11	Strobe Set This output is activated for 10 seconds after the alarm centre is activated and the alarm centre is active. The output can be used to issue an active acknowledgement.
12	Set 1 This output is activated for a definable time period (command 170) if the alarm centre is activated completely (A) or internally (B), (C) or (D) (command 171).
13	Unset 1 This output is activated for a definable time period (command 172) if the alarm centre is deactivated completely (A) or internally (B), (C) or (D) (command 171).
14	Confirm This output is active during a confirmed alarm.

15	Set Comp1 This output is active for 10 seconds after the system has been activated.
16	Unset Comp1 This output is active for 10 seconds after the system has been deactivated or after an alarm has been deactivated.
17	System Alarm This output is activated when the alarm centre has detected an alarm.
In a partitioned system	
18	Bell Partition A This output is active when an alarm has been detected in partition A.
19	Bell Partition B This output is active when an alarm has been detected in partition B.
20	Bell Partition C This output is active when an alarm has been detected in partition C.
21	Bell Partition D This output is active when an alarm has been detected in partition D.
22	Strobe Set Partition A This output is active for 10 seconds after partition A has been activated.
23	Strobe Set Partition B This output is active for 10 seconds after partition B has been activated.
24	Strobe Set Partition C This output is active for 10 seconds after partition C has been activated.
25	Strobe Set Partition D This output is active for 10 seconds after partition D has been activated.

26	Set 1 This output is activated for a definable time period (command 170) if the alarm centre is activated completely (A) or internally (B), (C) or (D) (command 171).
27	Set 2 This output is activated for a definable time period (command 170) if the alarm centre is activated completely (A) or internally (B), (C) or (D) (command 171).
28	Set 3 This output is activated for a definable time period (command 170) if the alarm centre is activated completely (A) or internally (B), (C) or (D) (command 171).
29	Set 4 This output is activated for a definable time period (command 170) if the alarm centre is activated completely (A) or internally (B), (C) or (D) (command 171). The output is also activated if a fire or panic alarm is triggered.
30	Unset 1 This output is activated for a definable time period (command 170) if the alarm centre is deactivated completely (A) or internally (B), (C) or (D) (command 171).
31	Unset 2 This output is activated for a definable time period (command 170) if the alarm centre is deactivated completely (A) or internally (B), (C) or (D) (command 171).
32	Unset 3 This output is activated for a definable time period (command 170) if the alarm centre is deactivated completely (A) or internally (B), (C) or (D) (command 171).

33	Unset 4 This output is activated for a definable time period (command 170) if the alarm centre is deactivated completely (A) or internally (B), (C) or (D) (command 171).
34	Fire This output is activated if a fire alarm is triggered. The output remains active until the alarm is deactivated.
35	PA This output is activated if a fire alarm is triggered. The output remains active until the alarm is deactivated.

4. Confirm your input. On the control unit, enter: ☑.

5. The control unit acknowledges your input with a double "beep" tone and shows Installer Mode.

082 Relay output OP2

To change the behaviour of relay output OP2 on the alarm centre PCB:
1. On the control unit, enter: **082** ☑

2. The LCD display shows: 082: Strobe

3. Via the keypad, select from the items described above and enter the function accordingly:

083 Transistor output OP3

To change the behaviour of transistor output OP3 on the alarm centre PCB:
1. On the control unit, enter: **083** ☑

2. The LCD display shows: 083: Set Latch

3. Via the keypad, select from the items described above and enter the function accordingly:

085 Burglary output

To change the behaviour of the transistor output on burglar alarms:

1. On the control unit, enter: **085** ☑

2. The LCD display shows: 085: Burg=Latched

3. Via the keypad, select from the following items and press:

00	Burg=Latched The output remains activated until the user or programmer resets the alarm centre.
01	Burg=Rearm The output is reset following expiry of the defined siren duration. It can be reactivated in the event of a new alarm.

4. Confirm your input. On the control unit, enter: ☑.

5. The control unit acknowledges your input with a double "beep" tone and shows Installer Mode.

086 Additional entry delay

To change the behaviour of the entry delay time:
1. On the control unit, enter: **086** ☑

2. The LCD display shows: 086:Dual Ply OFF

3. Via the keypad, select from the following items and press:

0	Dual Ply OFF An alarm is triggered following expiry of the entry delay time.
1	Dual Ply ON An internal alarm is triggered following expiry of the delay time. The user has another 30 seconds to enter the user code and deactivate the alarm centre.

4. Confirm your input. On the control unit, enter: ☑.

5. The control unit acknowledges your input with a double "beep" tone and shows Installer Mode.

087 Control unit alarm

To change the properties of the connected control units:
1. On the control unit, enter: **087** ✓

2. The LCD display shows: 087:Dual Key OFF

3. Via the keypad, select from the following items and press:

0	Dual Key OFF If the function is deactivated, no alarm can be emitted by the control unit.
1	Dual Key ON If the function is activated, an alarm can be emitted by the control unit. To trigger an alarm, press the following keys: 1 & 3 for panic 4 & 6 for medical emergency 7 & 9 for fire alarm For further information, see the operating instructions of this product.

4. Confirm your input. On the control unit, enter: ✓.

5. The control unit acknowledges your input with a double "beep" tone and shows Installer Mode.

089 Alarm confirmation

To change the properties:
1. On the control unit, enter: **089** ✓

2. The LCD display shows: 089:Confirm OFF

3. Via the keypad, select from the following items and press:

0	Confirm OFF The alarm centre is not programmed for the signalling of confirmed alarms.
1	Confirm ON The alarm centre is programmed for the signalling of confirmed alarms.

4. Confirm your input. On the control unit, enter: ✓.

5. The control unit acknowledges your input with a double "beep" tone and shows Installer Mode.

090 - 097 Test function see 16.6

098 Factory settings

To restore the factory settings:
1. You must be in program mode.

2. On the control unit, enter: **098** ✓

3. The LCD display shows: 098: Load Default

4. On the control unit, enter: 1

5. To restore the factory settings, press the following key: ✓.

6. To abort, press: ✗.

7. The control unit acknowledges your input with a double "beep" tone and shows Installer Mode.

099 Exit program mode

To exit program mode:
1. On the control unit, enter: **099** ✓

2. The LCD display shows: 099: exit Eng ?

3. On the control unit, enter: ✓

4. The control unit shows: SYSTEM TEST

5. If no fault exists and zones with the properties 24 hour, fire, panic or technical open are closed, you exit the program menu.

6. If there is a fault, the alarm centre displays it. Clear the fault and repeat steps 1–4.

101 Call mode TWG

Proceed as follows to change the property of call mode telephone dialler (TWG):
1. You must be in program mode.

2. On the control unit, enter: **101** ✓

3. The LCD display shows: 101: Comms=OFF

4. Via the keypad, select from the following items and press:

0	Comms=OFF The alarm centre does not use any communication devices.
1	Comms=Single Single report. The alarm centre reports to a programmed telephone number (command 115) with an access number (command 117). The alarm centre dials the number and attempts to establish a connection to the central station (max. 15 attempts).
2	Comms=ALT The alarm centre dials one of two programmed numbers and attempts to establish a connection to the central station. If the attempt is unsuccessful then the alarm centre dials the second of the two numbers (max 15 attempts for each number). If the connection is successful and the alarm is confirmed then the connection is subsequently closed.
3	Comms=Dual Dual Report. As in item 2, 2 numbers are dialled and an attempt is made to establish a connection to the central stations. However, both central stations must have successfully confirmed the alarm (max. 15 attempts until both have successfully confirmed).

5. Confirm your input. On the control unit, enter: ☑.

6. The control unit acknowledges your input with a double "beep" tone and shows Installer Mode.

103 Format Report

Proceed as follows to change the property of the format report:

1. On the control unit, enter: **103** ☑

2. The LCD display shows: 126:Format=FF

3. Via the keypad, select from the following items and press:

0	Format=FF Fast format
1	Format=CID Contact ID
2	Format=SIAI1 Scancom SIA Level I
3	Format=SIA2 Scancom SIA Level 2 (transmits no time+date)
4	Format=SIA3 Scancom SIA Level 3
5	Format=XSIS3 Extended Scancom SIA Level 3
6	Format=Hbeep Home „beep" No particular format. The alarm centre dials a number and transmits a „beep" See command 186.

4. Confirm your input. On the control unit, enter: ☑.

5. The control unit acknowledges your input with a double "beep" tone and shows Installer Mode.

105 Test call

To change the properties of the test call:

1. On the control unit, enter: **105** ☑

2. The LCD display shows: 105:Day Hour=00

3. Via the keypad, select from the following items and press:

00	OFF
A nn	Day Hour Daily test call to the alarm centre at the required time 01-24.
B nn	Month Day Monthly test call to the alarm centre on the required day 01-28.
C nn	Freq Hour The alarm centre makes a test call every nn hours (e.g. every 12 hours).
D nn	Freq Days The alarm centre makes a test call every nn days.

6. Confirm your input. On the control unit, enter: ☑.

7. The control unit acknowledges your input with a double "beep" tone and shows Installer Mode.

106 Line loss report

To change the settings of the line loss report:

1. On the control unit, enter: **106** ☑

2. The LCD display shows: 106:LF=Audible

3. Via the keypad, select from the following items and press:

0	OFF
1	LF=Audible When deactivated, the alarm centre writes the loss in the event memory and emits a short tone every minute at the control unit. The tone is silenced on entering the access code and the

	control unit shows a line loss on the display. The system can still be activated, despite the loss. When activated, the alarm centre writes the loss in the event memory but no tone is emitted from the control unit and nothing is displayed. If there is an alarm during a line loss then all siren delays are switched off.
2	LF=Silent When deactivated, the alarm centre writes the loss in the event memory and shows the loss in the display of the control unit. When activated, the alarm centre writes the loss in the event memory but shows nothing on the display. If there is an alarm during a line loss then all siren delays are switched off.

4. Confirm your input. On the control unit, enter: ☑.

5. The control unit acknowledges your input with a double "beep" tone and shows Installer Mode.

108 Dynamic test call

To change the properties of the dynamic test call:

1. On the control unit, enter: **108** ☑

2. The LCD display shows: 108:Dynamic OFF

3. Via the keypad, select from the following items and press:

0	Dynamic OFF Dynamic test call is switched off.
1	Dynamic ON The alarm centre carries out a test call 24 hours after the last communication.

4. Confirm your input. On the control unit, enter: ☑.

5. The control unit acknowledges your input with a double "beep" tone and shows Installer Mode.

109 Three way call – UK only

To change the settings of the three way call:
1. On the control unit, enter: **109** ☑

2. The LCD display shows: 109:ThreeWayOFF

3. Via the keypad, select from the following items and press:

0	ThreeWayOFF Three way call is switched off.
1	ThreeWayON Three way call is switched on.

4. Confirm your input. On the control unit, enter: ☑.

5. The control unit acknowledges your input with a double "beep" tone and shows Installer Mode.

110 Download mode

To change the settings of the download mode:
1. On the control unit, enter: **110** ☑

2. The LCD display shows: 110:LoCal PC

3. Via the keypad, select from the following items and press:

0	Local PC The alarm centre is programmed via the connected data cable.
1	Remote PC The alarm centre is programmed via the telephone line. The alarm centre responds to a call from a remote PC (see commands 112, 113) The command 114-1 has no function with this command The alarm centre cancels this command if no call is made by the PC within 30 minutes.

4. Confirm your input. On the control unit, enter: ☑.

5. The control unit acknowledges your input with a double "beep" tone and shows Installer Mode.

112 Call until answer - download

To change the settings:
1. On the control unit, enter: **112** ☑

2. The LCD display shows: 112:Rings=5

3. Via the keypad, select from the following items and press:

0	Rings=3 The alarm centre rings 3 times before answering.
1	Rings=5 The alarm centre rings 5 times before answering.
2	Rings=7 The alarm centre rings 7 times before answering.
3	Rings=10 The alarm centre rings 10 times before answering.
4	Rings=15 The alarm centre rings 15 times before answering.
5	Rings=255 The alarm centre rings 255 times before answering.

4. Confirm your input. On the control unit, enter: ☑.

5. The control unit acknowledges your input with a double "beep" tone and shows Installer Mode.

113 1 Call - download

To change the settings:
1. On the control unit, enter: **113** ☑

2. The LCD display shows: 113:One Ring OFF

3. Via the keypad, select from the following items and press:

0	One Ring Off The alarm centre does not answer a call.
1	One Ring ON

	The alarm centre interprets a call as a message from a remote PC. 10 to 90 seconds later, the remote PC calls again once and the alarm centre answers immediately on the first call. (Set command 112 to a larger number of calls than other end devices on the line)

4. Confirm your input. On the control unit, enter: ✓.

5. The control unit acknowledges your input with a double "beep" tone and shows Installer Mode.

114 Call back mode
To change the settings:
1. On the control unit, enter: **114** ✓
2. The LCD display shows: 114:Callback OFF
3. Via the keypad, select from the following items and press:

0	CallBack OFF (the call to the remote PC must be triggered manually – command 0 user mode).
1	CallBack ON The alarm centre answers after the set number of calls. The alarm centre hangs up and checks the ID and software version of the remote PC. After a short delay time, the alarm centre calls back the PC (see command 118+119).
2	CallBack ANY When deactivated, the alarm centre answers after a set number of calls (command 112+113) and accepts the programming commands immediately.

4. Confirm your input. On the control unit, enter: ✓.

5. The control unit acknowledges your input with a double "beep" tone and shows Installer Mode.

115 Telephone number 1
To change the settings:
1. On the control unit, enter: **115** ✓
2. The LCD display shows: 115:Tel No 1
3. Via the keypad, enter the telephone number. Use key **A** to enter a 4-second pause (shown by a comma).
4. Confirm your input. On the control unit, enter: ✓.
5. The control unit acknowledges your input with a double "beep" tone and shows Installer mode.

116 Telephone number 2
See command 115.

117 Client no. CS
With SIA formats the control unit can report alarms using a six-digit account code. Account code 1234 becomes 001234. To change the settings:
1. On the control unit, enter: **117** ✓
2. The LCD display shows: 117:Account No
3. Use the keyboard to enter the numbers of the client no. („account no") for partition A. Keys **C** and **D** move the cursor to the right and left.
4. Confirm your input. On the control unit, enter: ✓.
5. Repeat step 3 for the additional partitions.
6. The control unit acknowledges your input with a double "beep" tone and shows Installer Mode.

Some European countries use letters in the account number. The alarm centre accepts the letters B, C, D, E and F. To enters letters, use the keyboard the same way as when assigning the zone names.

118 RemoteTel No 1

To change the settings:

1. On the control unit, enter: **118** ☑

2. The LCD display shows: 118:DL Tel No 1

3. Via the keypad, enter the telephone number.
   Use key **A** to enter a 4-second pause (shown by a comma).

4. Confirm your input. On the control unit, enter: ☑.

5. The control unit acknowledges your input with a double "beep" tone and shows Installer Mode.

119 RemoteTel No 2

See command 118.

120 RemoteTel No 3

To change the settings:

1. On the control unit, enter: **120** ☑

2. The LCD display shows: 120:DL No 3=OFF

3. Via the keypad, select from the following items and press:

0	DL No 3=OFF The alarm centre does not just accept any remote telephone number.
1	DL No 3=ON The alarm centre accepts any numbers from remote PCs. The remote PC transmits its number to the alarm centre and the alarm centre uses this number for the call back.

4. Confirm your input. On the control unit, enter: ☑.

5. The control unit acknowledges your input with a double "beep" tone and shows Installer mode.

123 Reset report

To change the settings:

1. On the control unit, enter: **123** ☑

2. The LCD display shows: 123:Restore OFF

3. Via the keypad, select from the following items and press:

0	Restore OFF The alarm centre does not communicate any resets.
1	Restore ON The alarm centre communicates resets. (Function only with Scancom Fast Format)

4. Confirm your input. On the control unit, enter: ☑.

5. The control unit acknowledges your input with a double "beep" tone and shows Installer Mode.

124 Switch open/close

To change the settings:

1. On the control unit, enter: **124** ☑

2. The LCD display shows: 124:Rev O/C OFF

3. Via the keypad, select from the following items and press:

0	Rev O/C OFF Open/Close not switched
1	Rev O/C ON The function switches the commands Open/Close for Scancom Fast Format.

4. Confirm your input. On the control unit, enter: ☑.

5. The control unit acknowledges your input with a double "beep" tone and shows Installer Mode.

125 No signal „closed"

To change the settings:

1. On the control unit, enter: **125** ☑

2. The LCD display shows: 125:Omit > 1 OFF

3. Via the keypad, select from the following items and press:

0	Omit >1 OFF
1	Omit >1 ON The alarm centre does not transmit the „closed" signal if more than 1 zone is locked. (Function only with Scancom Fast Format)

4. Confirm your input. On the control unit, enter: ☑.

5. The control unit acknowledges your input with a double "beep" tone and shows Installer Mode.

126 Change language

To change the language used for the control unit display:

1. On the control unit, enter: **126** ☑

2. The LCD display shows: 126:Lang=English

3. Via the keypad, select from the following items and press:

00	ENGLISH
01	ITALIAN
02	ESPANOL
03	PORT
04	NEDERL
05	FRANCAI
06	GERMAN
07	NORW.
08	SWED.
09	DANSK

4. Confirm your input. On the control unit, enter: ☑.

5. The control unit acknowledges your input with a double "beep" tone and shows Installer Mode.

128 External alarm

All radio transmitters are monitored via the radio expansion unit. If a radio zone has not communicated with the radio expansion unit for more than 2 hours then this reports a monitoring error. The external alarm function describes how the alarm centre reacts to this fault. To change the settings:

1. On the control unit, enter: **128** ☑

2. The LCD display shows: 128:Full Alarm

3. Via the keypad, select from the following items and press:

0	Full Alarm Sirens + call to central station
1	Local Alarm Internal, external + control unit tone
2	Keypads only
3	Comms only
4	Inhibit Set Control unit tone; the alarm centre can not be activated until the faulty detector reacts

4. Confirm your input. On the control unit, enter: ☑.

5. The control unit acknowledges your input with a double "beep" tone and shows Installer Mode.

129 Deactivate external

To change the settings:

1. On the control unit, enter: **129** ☑

2. The LCD display shows: 129:ExtUnset OFF

3. Via the keypad, select from the following items and press:

0	ExtUnset OFF The user must first enter the entry zone and thereby start the entry time before he is able to deactivate using the remote control.
1	ExtUnset OFF The user can deactivate the alarm centre without entering the entry zone.

4. Confirm your input. On the control unit, enter: ☑.

5. The control unit acknowledges your input with a double "beep" tone and shows Installer Mode.

131 SIA report mode

To change the settings:

1. On the control unit, enter: **131** ☑

2. The LCD display shows: 131:Mode=Basic

3. Via the keypad, select from the following items and press:

0	Mode=Basic See the appendix for a description
1	Mode=Summary See the appendix for a description
2	Mode=Intermd See the appendix for a description
3	Mode=Full See the appendix for a description

4. Confirm your input. On the control unit, enter: ☑.

5. The control unit acknowledges your input with a double "beep" tone and shows Installer Mode.

132 Transmit tampering as burglary

To change the settings:

1. On the control unit, enter: **132** ☑

2. The LCD display shows: 132:TA = BA OFF

3. Via the keypad, select from the following items and press:

0	TA = BA OFF The alarm centre transmits all SIA reports as specified in command 131.
1	TA = BA ON During an external alarm, the alarm centre transmits tampering as a burglary message and contact ID 130 instead of Contact ID 137.

4. Confirm your input. On the control unit, enter: ☑.

5. The control unit acknowledges your input with a double "beep" tone and shows Installer Mode.

133 SIA Reset

To change the settings:

1. On the control unit, enter: **133** ☑

2. The LCD display shows: 133:SIA Rst OFF

3. Via the keypad, select from the following items and press:

0	SIA Rst OFF The alarm centre does not transmit any SIA reset reports (fire, panic, technical, tamper resets)
1	SIA Rst ON The alarm centre transmits SIA resets.

4. Confirm your input. On the control unit, enter: ☑.

5. The control unit acknowledges your input with a double "beep" tone and shows Installer Mode.

143 Contact ID report Rst

To change the settings:

1. On the control unit, enter: **143** ☑

2. The LCD display shows: 143:Mode=Bas+Res

3. Via the keypad, select from the following items and press:

0	Mode=Basic All reports with numbers as in the „CID Code" column apart from those marked with a # (see appendix, SIA Report Mode)
1	Mode=Bas+Res All reports with numbers as in the „CID Code" column (see appendix, SIA Report Mode)

4. Confirm your input. On the control unit, enter: ☑.

5. The control unit acknowledges your input with a double "beep" tone and shows Installer Mode.

151 Additional outputs

By using the cable supplied or the optional relay PCB, you have access to eight further transistor outputs. To change the setting of output 1:

1. On the control unit, enter: **151** ☑

2. The LCD display shows: 151:Fire

3. Via the keypad, select from the following items and press:

00	Not Used
01	Fire
02	PA
03	Burglar
04	Open / Closed
05	Alarm Abort
06	Technical Alarm
07	Alarm Confirmation

08	RF Low Battery
09	RF Supervision Loss
10	RF Jamming
11	AC Fail
12	Tamper Alarm
13	Open
14	Close
15	Zone Omitted
16	Medical
17	Keybox
18	Anti-Mask
19	Smoke Detector
20	Comms Acknowledge
21	Battery Fault
22	System Alarm
23	Alarm partition A
24	Alarm partition B
25	Alarm partition C
26	Alarm partition D
30	Set 1
31	Set 2
32	Set 3
33	Set 4
34	Unset 1
35	Unset 2
36	Unset 3
37	Unset 4

4. Confirm your input. On the control unit, enter: ☑.

5. The control unit acknowledges your input with a double "beep" tone and shows Installer Mode.

152 Additional outputs

Additional output 2

153 Additional outputs
Additional output 3

154 Additional outputs
Additional output 4

155 Additional outputs
Additional output 5

156 Additional outputs
Additional output 6

157 Additional outputs
Additional output 7

158 Additional outputs
Additional output 8

159 Inverting additional outputs
You can also invert the additional transistor outputs for different applications. In inverted state, the voltage of +12V is applied in active state – e.g.: for addressing a visual signal.

1. On the control unit, enter: **159** ☑

2. The LCD display shows: 159: INV Pgby OFF

3. Via the keypad, select from the following items and press:

00	inv Pgby OFF +12V voltage is removed for activating the output. In deactivated state, the output is set to +12V.
01	Inv Pgby ON +12V voltage is applied for activating the output. In deactivated state, the output is set to ground.

4. Confirm your input. On the control unit, enter: ☑.

5. The control unit acknowledges your input with a double "beep" tone and shows Installer Mode.

160 Time-confirmed alarm
To change the settings:
1. On the control unit, enter: **160** ☑

2. The LCD display shows: 160:Confrm t=30

3. Via the keypad, select from the following items and press:

000-999	Bestät=000-999 The timer starts when an alarm has been triggered for the first time. If another alarm is triggered before the time has expired then the alarm centre transmits a confirmed alarm to the central station (command 89=1)

4. Confirm your input. On the control unit, enter: ☑.

161 Confirm internal loudspeaker
To change the settings:
1. On the control unit, enter: **161** ☑

2. The LCD display shows: 161:Conf Int OFF

3. Via the keypad, select from the following items and press:

0	Conf Int OFF Internal loudspeaker is on for unconfirmed alarm (command 89=1)
1	Conf Int OFF Internal loudspeaker is on for confirmed alarm (command 89=1)

4. Confirm your input. On the control unit, enter: ☑.

162 Confirm external sirens

To change the settings:
1. On the control unit, enter: **162** ☑

2. The LCD display shows: 162:Conf Ext OFF

3. Via the keypad, select from the following items and press:

0	Conf Ext OFF External siren is on for unconfirmed alarm (command 89=1)
1	Conf Ext ON External siren is on for confirmed alarm (command 89=1)

4. Confirm your input. On the control unit, enter: ☑ .

163 Confirmed alarm during entry

To change the settings:
1. On the control unit, enter: **163** ☑

2. The LCD display shows: 163:Conf Ent Nev

3. Via the keypad, select from the following items and press:

0	Conf Ent Nev No alarm confirmation
1	Conf Ent 1 A zone must be entered for a confirmed alarm
2	Conf Ent 2 Two zones must be entered for a confirmed alarm

4. Confirm your input. On the control unit, enter: ☑ .

164 User reset after confirmed alarm

To change the settings:
1. On the control unit, enter: **164** ☑

2. The LCD display shows: 164:Alarm RstU/E

3. Via the keypad, select from the following items and press:

0	Alarm RstU/E The user can make a reset after the first alarm / installer is required for reset after confirmed alarm
1	Alarm RstU/U The user can make a reset after both types of alarm
2	Alarm RstE/E The installer can make a reset after both types of alarm

4. Confirm your input. On the control unit, enter: ☑ .

170 Prog. pulse outputs (time active)

The outputs programmed as active 1–4 are pulse-addressed for a predefined time during activation of the alarm centre as well as for fire and panic alarms. First define the time in which these output are to be active.

1. On the control unit, enter: **170** ☑

2. The LCD display shows: 170: Set 1 01

3. Via the keypad, enter the time duration. Possible values: are 00 for a latched output or a time duration from 01 to 12 seconds.

4. To confirm, press: ☑

5. The LCD display shows: 170: Set 2 01

6. In the same way, enter pulse time 2 via the keypad.

7. Continue until all times are entered.

8. The control unit acknowledges your input with a double "beep" tone and shows Installer mode.

171 Prog. pulse outputs (levels active)

Define when the outputs are to activated by defining the type of activation/deactivation (A, B, C, D) for switching the outputs to active.

1. On the control unit, enter: **171** ☑

2. The LCD display shows: 171: Set 1 ABCD

3. Via the keypad, enter the activation level. A = overall active, B, C and D for internal active B, C or D.

4. To confirm, press: ☑

5. The LCD display shows: 170: Set 2 ABCD

6. In the same way, enter activation level 2 via the keypad.

7. Continue until all levels are entered.

8. The control unit acknowledges your input with a double "beep" tone and shows Installer Mode.

172 Prog. pulse outputs (time inactive)
The outputs programmed as inactive 1–4 are pulse-addressed for a predefined time during deactivation of the alarm centre. First define the time in which these output are to be active.

1. On the control unit, enter: **172** ☑

2. The LCD display shows: 172: Unset 1 01

3. Via the keypad, enter the time duration. Possible values: are 00 for a latched output or a time duration from 01 to 12 seconds.

4. To confirm, press: ☑

5. The LCD display shows: 172: Unset 2 01

6. In the same way, enter pulse time 2 via the keypad.

7. Continue until all times are entered.

8. The control unit acknowledges your input with a double "beep" tone and shows Installer mode.

173 Prog. pulse outputs (levels inactive)
Define when the outputs are to activated by defining the type of activation/deactivation (A, B, C, D) for switching the outputs to active.

1. On the control unit, enter: **173** ☑

2. The LCD display shows: 173: Unset 1 ABCD

3. Via the keypad, enter the activation level. A = overall active, B, C and D for internal active B, C or D.

4. To confirm, press: ☑

5. The LCD display shows: 173: Unset 2 ABCD

6. In the same way, enter activation level 2 via the keypad.

7. Continue until all levels are entered.

8. The control unit acknowledges your input with a double "beep" tone and shows Installer Mode.

174 Prog. pulse outputs (fire option)
Define whether the outputs are also to be activated for fire alarm by setting the Fire option to ON. Important: Only those outputs that are activated during deactivation of the alarm centre can also be activated for fire.

1. On the control unit, enter: **174** ☑

2. The LCD display shows: 174: Fire 1 ON

3. Use the keypad to define:
   00=OFF **01**=ON

4. To confirm, press: ☑

5. The LCD display shows: 174: Fire 2 ON

6. In the same way, enter the Fire 2 option via the keypad.

7. Continue until all outputs are entered.

8. The control unit acknowledges your input with a double "beep" tone and shows Installer Mode.

175 Prog. pulse outputs (panic option)
Define whether the outputs are also to be activated for panic alarm by setting the Panic option to ON. Important: Only those outputs that are activated during deactivation of the alarm centre can also be activated for panic.

1. On the control unit, enter: **175** ☑

2. The LCD display shows: 175: PA 1 ON

3. Use the keypad to define:
   00=OFF **01**=ON
4. To confirm, press: ☑
5. The LCD display shows: 175: PA 2 ON
6. In the same way, enter the Fire 2 option via the keypad.
7. Continue until all outputs are entered.
8. The control unit acknowledges your input with a double "beep" tone and shows Installer Mode.

181 Guard code
To change the settings:
1. On the control unit, enter: **181** ☑
2. The LCD display shows: 181:GuardCodeOFF
3. Via the keypad, select from the following items and press:

0	GuardCodeOFF No guard code is used
1	GuardCodeON Using the guard code, the user can deactivate the alarm centre after an alarm. An entry is made in the event memory.

4. Confirm your input. On the control unit, enter: ☑.
5. The control unit acknowledges your input with a double "beep" tone and shows Installer Mode.

182 Last output for settling time
This time sets a delay in the alarm report for detectors in the exit area. The sirens are switched off during this time and the alarm centre ignores the alarms.
To change the settings:
1. On the control unit, enter: **182** ☑
2. The LCD display shows: 182:Settling 07
3. Via the keypad, select from the following items and press:

07-12	Settling 07-12

4. Confirm your input. On the control unit, enter: ☑.
5. The control unit acknowledges your input with a double "beep" tone and shows Installer Mode.

183 Change display
To change the settings:
1. On the control unit, enter: **183** ☑
2. The LCD display shows: 183:   Terxon MX
3. Use the keyboard to change the display. Use the keyboard in the same way as when assigning the zone names.
4. Confirm your input. On the control unit, enter: ☑.
5. The control unit acknowledges your input with a double "beep" tone and shows Installer Mode.

184 Fire signal transmitter
To change the settings:
1. On the control unit, enter: **184** ☑
2. The LCD display shows: 184:FirePulseOFF
3. Via the keypad, select from the following items and press:

0	FirePulseOFF Normal 2-tone fire alarm
1	FirePulseON Transmits a pulse signal to the outputs connected as „Siren" (81-83=00)

4. Confirm your input. On the control unit, enter: ☑.
5. The control unit acknowledges your input with a double "beep" tone and shows Installer Mode.

185 Key switch auto reset
To change the settings:
1. On the control unit, enter: **185** ☑

2. The LCD display shows: 185:KsAutoRstOFF

3. Via the keypad, select from the following items and press:

0	KsAutoRstOFF The user must manually reset any triggered zones.
1	KsAutoRstON The system automatically resets zone types KM or KF when the user activates using the key switch.

4. Confirm your input. On the control unit, enter: ☑.

5. The control unit acknowledges your input with a double "beep" tone and shows Installer Mode.

186 Number of home „beep" calls
To change the settings:
1. On the control unit, enter: **186** ☑

2. The LCD display shows: 186:HB calls 02

3. Via the keypad, select from the following items and press:

01-15	HB calls 01-15 Number of calls with report type home „beep" (command 103=6)

4. Confirm your input. On the control unit, enter: ☑.

5. The control unit acknowledges your input with a double "beep" tone and shows Installer Mode.

191 Fast format channel 1
To change the settings::
1. On the control unit, enter: **191** ☑

2. The LCD display shows: 191:Fire

3. Via the keypad, select from the following items and press:

00	Not Used
01	Fire
02	PA
03	Burglar
04	Open/Close
05	Alarm Abort
06	Technical Alarm
07	Alarm Confirmation
08	RF Low Battery
09	RF Supervision Loss
10	RF Jamming
11	AC Fail
12	Tamper Alarm
13	Open
14	Close
15	Zone Omitted
16	Medical
17	Keybox
18	AntiMask
19	Smoke Detector
20	Comms Acknowledge
21	Battery Fault
22	System Alarm
In a partitioned system	
23	Alarm partition A
24	Alarm partition B
25	Alarm partition C
26	Alarm partition D
30	Pulse Set 1
31	Pulse Set 2
32	Pulse Set 3
33	Pulse Set 4
34	Unset 1
35	Unset 2
36	Unset 3
37	Unset 4

4. Confirm your input. On the control unit, enter: ☑ .

5. The control unit acknowledges your input with a double "beep" tone and shows Installer Mode.

192 Fast format channel 2
See command 191.
Default setting: Panic to follow

193 Fast format channel 3
See command 191.
Default setting: Burglary to follow

194 Fast format channel 4
See command 191.
Default setting: Active/inactive to follow

195 Fast format channel 5
See command 191.
Default setting: Zone locked

196 Fast format channel 6
See command 191.
Default setting: Alarm cancellation to follow

197 Fast format channel 7
See command 191.
Default setting: Panic to follow

198 Fast format channel 8
See command 191.
Default setting: Technical alarm to follow

201 Prog. entry delay time 1
Define entry delay time 25.40 mm seconds. Proceed as follows:

1. On the control unit, enter: **201** ☑

2. The LCD display shows: 201: Entry 1=20

3. Via the keypad, enter the entry delay time.

4. Confirm your input by pressing. ☑ .

5. The control unit acknowledges your input with a double "beep" tone and shows Installer Mode.

202 Prog. entry delay time 2
Define entry delay time 2 in seconds. Proceed as follows:

1. On the control unit, enter: **202** ☑

2. The LCD display shows: 202: Entry 2=20

3. Via the keypad, enter the entry delay time.

4. Confirm your input by pressing. ☑ .

5. The control unit acknowledges your input with a double "beep" tone and shows Installer Mode.

203/204 Prog. entry delay time 3/4
Define entry delay time 3/4 in seconds. Proceed as follows:

1. On the control unit, enter: **203/204** ☑

2. The LCD display shows:
203/204: Entry 3/4=20

3. Via the keypad, enter the entry delay time.

4. Confirm your input by pressing. ☑ .

5. The control unit acknowledges your input with a double "beep" tone and shows Installer Mode.

16.4   Programming Partitions

If you are using a partitioned system then you can use the following commands for programming the partitions.

1. Use the commands 01 to 16 and X17 to X32 to assign a partition to each zone.

   - each zone belongs to partition A (factory setting).
   - Press key A to assign zones to partition A. Use keys B, C and D to assign zones to the respective partition.

2. Use command 32 to assign control units to partitions. In the default setting, all control units belong to all partitions.

3. Programming from exit mode, alarm reaction and exit time:

Partition	A	B	C	D
Exit mode	Com. 39	Com. 62	Com. 72	Com. 76
Alarm reaction	Com. 47	Com. 63	Com. 73	Com. 77
Exit time	Com. 44	Com. 65	Com. 75	Com. 79

4. You can assign siren outputs to each partition using commands 81 to 84.
   - Option 18 assigns the output to partition A.
   - Option 19 assigns the output to partition B.
   - Option 20 assigns the output to partition C.
   - Option 21 assigns the output to partition D.

5. Make sure that the main user is instructed on how to assign individual user codes to partitions.

Command changes for partitioned systems

Some commands provide new functions for partitioned systems and some commands can no longer be used. The following table gathers together the differences in the programming:

Command	Partition System	Single System
01-40 zone programming	A – D = partitions	A – D = sections of locations
28 mask out the status display	partition active	location active
32 control units and partitions	control unit assigned to part. B	no function
39 location/partition A exit mode	option 3 and 4 possible	option 3 becomes Lockset option 4 is not possible
47 partition A alarm report	function possible	no function
60 zone behaviour for internal B (last exit)	no function	function possible
61 zone behaviour for internal B (entry zone)	no function	function possible
62 exit mode for internal B	options changed	
63 alarm behaviour for internal B	options changed	
70 zone behaviour for internal C (last exit)	no function	function possible
71 zone behaviour for internal C (entry zone)	no function	function possible
72 exit mode for internal C	options changed	
73 alarm behaviour for internal C	options changed	
76 exit mode for internal D	options changed	
77 Alarm behaviour for internal D	options changed	
81, 82, 83, 84 exits	18-21=Siren Partition	

16.5   Examples for a partitioned system

The following example shows a building with an entry area and two office areas. The two office areas are occupied by two different companies. The entry area is used by both companies.
With a partitioned system, two separate alarm centres are simulated by one alarm centre.
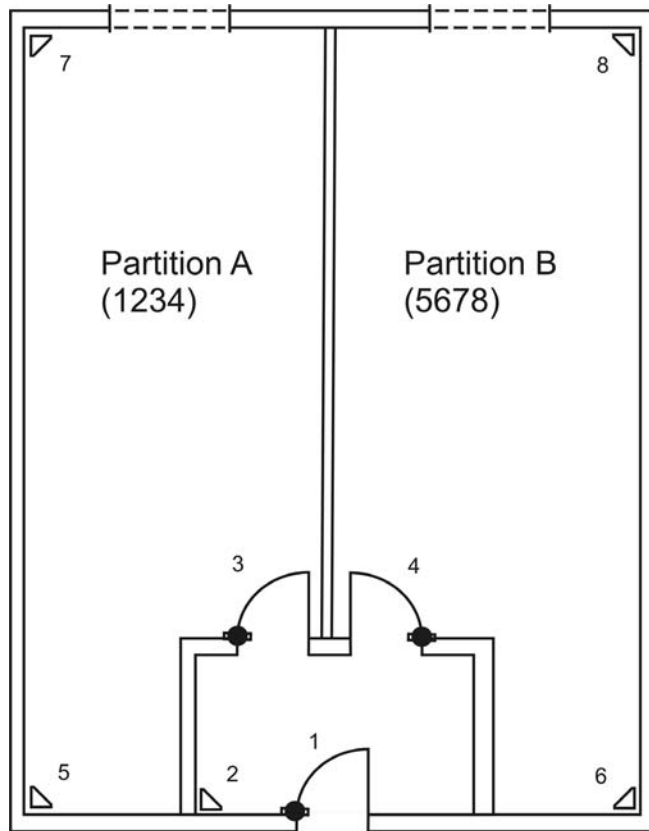
Detector 1 - entry/exit A + B

Detector 2 - entry to follow A + B

Detector 3 – normal alarm A

Detector 4 - normal alarm B

Detector 5 – normal alarm A

Detector 6 - normal alarm B

Detector 7 – normal alarm A

Detector 8 - normal alarm B

When the user of partition A leaves the office, he enters his 4-digit code at the control unit (1234). All detectors intended for his partition are automatically activated.
Detectors 1 and 2 are only activated when user 2 has also activated his partition (user code 5678).

16.6   Test functions

090 Event memory

The alarm centre stores the last 250 events. Each event is stored with date and time. The event memory can be viewed via the program menu.

1. On the control unit, enter: **090** ☑

2. The LCD display shows the latest events first.

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

4. Press ☑ to switch between the event and the date.

5. Press ☒ to exit the event memory.

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

Entries in the event memory and their meaning:

Entry	Meaning
MAINS Fail	Failure of 230V AC power supply
MAINS Fail OK	230V AC power supply restored
Alarm Abort	Alarm aborted manually by user
AUX DC Fail	12V DC power supply failed or AUX fuse defect
AUX DC Fail OK	12V DC power supply restored
Bad Checksum	Error in alarm centre memory
Batt Load Fail	Failure of battery charger or battery fuse defect
Batt Load Fail OK	Battery charger restored
Burg Zone nn	Zone nn has triggered a burglar alarm
Burg Zone nn OK	Zone nn OK
Defaults Loaded	Factory settings restored

EEPROM Fail	Memory error in the alarm centre
Fire Zone nn	Zone nn has triggered a fire alarm
Fire Zone nn OK	Zone nn reset
Fire OK	Fire alarm reset
Excess Keys	A user has tried too often to enter code in the control unit
Keyboard Missing	Control unit nn failed
Keyboard Restore	Control unit nn reconnected
Keyboard Tamper	Control unit has triggered a tamper alarm
Keyboard Restore	Control unit nn tamper reset
Fire Zone Alarm	Fire alarm triggered at control unit nn
Medical Zone Alarm	Medical emergency alarm triggered at control unit nn
Key Sw Set #	Alarm centre activated via key switch of zone nn
Entry	Meaning
Key Sw Unset #	Alarm centre deactivated via key switch of zone nn
Key Box Cls Z#	Zone nn with key box property closed
Key Box Opn Z#	Zone nn with key box property opened
Lid Tamper	The lid contact of the alarm centre was triggered
Lid Tamper Restore	The lid contact of the alarm centre is closed again
Batt missing	Battery supply interrupted (cable not plugged in)
Batt Flt Restore	Battery supply restored (cable connected)
PA K -- Alarm	BDT nn has triggered a panic alarm
PA Z -- Alarm	Zone nn has triggered a panic alarm
PA Z -- Rstr	Panic alarm of zone nn reset
Set Fail Zone --	The alarm centre could not be activated since ZN nn was triggered
Fire Z – Alarm	Zone nn has triggered a fire alarm

Fire Z -- Rstr	Zone nn fire alarm reset
Soak Fail Z --	Zone nn sensor test failed
Bell Tamper Rst	Siren tamper alarm reset
Bell Tamper	Siren tamper alarm triggered
System Rearmed	System automatically rearmed
System Startup	System supplied with power and started
Tamper Z --	Zone nn has triggered a panic alarm
Tamper Z -- Restore	Zone nn panic alarm reset
Tech Z -- Alarm	Zone nn has triggered a technical alarm
Tech Z -- Restore	Zone nn alarm reset
Tel Line Fault	Error in transmission (not for Terxon S)
Tel Line Restrore	Transmission error reset
User-- Change User--	User nn has changed the user code of user nn
User-- Delete User--	User nn has deleted the user code of user nn
U -- Off-Site	User nn has exited the program menu
U -- On-Site	User nn has entered the program menu
User-- System Reset	User nn has reset the alarm centre
User-- # Set	User nn has activated the alarm centre (area #)
User-- # Unset	User nn has deactivated the alarm centre (area #)
User-- Time/Date	User nn has changed the time and date
User Zone # Omit	User nn has removed ZN nn from monitoring
User Zone # Unomit	User nn has returned ZN nn to monitoring
Global Tamper	Only for zone property NC + tamper: Tamper line (COM A/T) triggered
Global T. Restore	Tamper line (COM A/T) reset

091 Test output 1

The alarm centre activates output 1 on the centre's PCB until it is terminated manually. To start the test, you must open the program menu. Proceed as follows:

1. On the control unit, enter: **091** ☑.
2. To end the test, press: ☑

092 Test output 2

The alarm centre activates output 2 on the centre's PCB until it is terminated manually. To start the test, you must open the program menu. Proceed as follows:

1. On the control unit, enter: **092** ☑.
2. To end the test, press: ☑

093 Test output 3

The alarm centre activates output 3 on the centre's PCB until it is terminated manually. To start the test, you must open the program menu. Proceed as follows:

1. On the control unit, enter: **093** ☑.
2. To end the test, press: ☑

094 Test loudspeaker output

The alarm centre activates the output for the optional loudspeaker on the PCB until it is terminated manually. To start the test, you must open the program menu. Proceed as follows:

1. On the control unit, enter: **094** ☑.
2. To end the test, press: ☑

095 Test control unit buzzer

The alarm centre activates the control unit buzzer until it is terminated manually. To start the test, you must open the program menu. Proceed as follows:

1. On the control unit, enter: **095** ☑.
2. To end the test, press: ☑

097 Walk test
If the walk test is activated, you can trigger all zones of the alarm centre to check their function. Activate the walk test and then trigger all zones in sequence. You should also test the tamper contact. Proceed as follows:

1. On the control unit, enter: **097** ☑.

2. The LCD display shows: 097: Walk Test

3. Trigger a zone. The buzzer of the control unit emits a two-note tone. The LCD display shows: A:ZONE nn

4. If you trigger a tamper alarm, the control unit display shows: T:ZONE nn

5. To end the walk test, press: ☒.

199 Measuring the resistance
The alarm centre can measure the resistance values of the zones and display them. You can therefore see if the right resistors have been used. Proceed as follows:

1. On the control unit, enter: **199** ☑.
2. The LCD display shows the values.
3. To change from zone to zone, press key 1 and key 3.

Meaning of display

Entry	Meaning
NO	No resistor used, zone open
2K1	2.2 KOhm resistor used
4K7	4.7 KOhm resistor used
…	Corresponding value in KOhm

991 Software version / Zone module check
Using this function, the installer can read out the software version of the alarm centre and check whether the alarm centre is partitioned.

1. On the control unit, enter: **991** ☑.
2. The LCD displays the software version and the letter **p** for a partitioned system.

3. Once more press ☑ to check the connected expansion modules (max. 3).

To exit the programming menu, re-press ☑.

099 to exit the program menu:
1. On the control unit, enter: **099** ☑.
2. To exit the menu, press: ☑.
3. The control unit acknowledges your input with a long "beep" tone and displays the date and time again.

16.7   SIA Report Mode

Reason		
Event	**SIA Code**	**CID Code (1)**
ALARM CONFIRM	BV	139
BURG	BA	130
BURG RESTORE	BR	130‡
DURESS	HA	121
EXIT TIMEOUT	EA	-
EXPANDER TAMPER	133 SIA Rst	137
EXPANDER TAMPER RESTORE	TR:	137‡
FIRE	FA	110
FIRE RESTORE	FR	110‡
FORBI INTERFACE TAMPER	133 SIA Rst	137
FORBI INTERFACE TAMPER	TR:	137‡
FORBI LOOP TAMPER	133 SIA Rst	137
FORBI LOOP TAMPER	TR:	137‡
FORBI TAMPER	133 SIA Rst	137
FORBI TAMPER RESTORE	TR	137‡
GLOBAL TAMPER	TA	137
GLOBAL TAMPER RESTORE	TR	137‡
KEYBOX OPEN	BA	150
KEYBOX CLOSED	BR	150‡
KEYPAD MEDICAL	MA	100
KEYPAD FIRE	FC	110
KEYPAD PA	HA	120
LID TAMPER	TA	137
LID TAMPER RESTORE	TR	137‡
MAN TRIGGER TEST REPORT	RX	601
PANIC	PA	120
PANIC RESTORE	PR	120‡
PERIODIC TEST REPORT	RP	602
SENSOR TAMPER	TA	137
SENSOR TAMPER RESTORE	TR	137‡
SMOKE DETECTOR	FA	111
SMOKE DETECTOR RESTORE	FR	111‡
BELL TAMPER	TA	137
BELL TAMPER RESTORE	TR	137‡
SUPERVISION FAIL	BZ	381
TA (Technical Alarm)	UA	150
TA RESTORE	UR	150‡
TAMPER KEYPAD	TA	137
TAMPER KEYPAD RESTORE	TR	-
TELCO1 FAULT	LT	351

| TELCO2 FAULT RESTORE | LR | - |
| ZONE OMIT | BB | 573 |

Summary		
Event	**SIA Code**	**CID Code**
AC LOST	AT	301
AC RESTORE	AR	301‡
ALARM ABORT	BC	406
ANTI MASK ZONE OPEN (2)	BT	380
ANTI MASK ZONE TAMPER (2)	BT	380
ANTI MASK ZONE RESTORED (2)	BJ	380
AUX TROUBLE	YP	-
AUX RESTORED	YQ	-
BATT MISSING	YM	311
BATT RESTORED	YR	311‡
LOW BATT	YT	311
LOW BATT RESTORE	YR	311‡
PARTITION RESET	OR	305
RESET	OR	305

Intermediate		
Event	**SIA Code**	**CID Code**
ARM	CL	401
DISARM	OP	401
KEYSWITCH DISARM	OS	409
KEYSWITCH ARM	CS	409

Total		
Event	**SIA Code**	**CID Code**
DOWNLOAD SUCCESS	RS	412
EXPANDER MISSING	TA	137
EXPANDER MISSING RESTORE	TR	137‡
FORBI MISSING	TA	137
FORBI MISSING RESTORE	TR	137‡
JAMMING	XQ	380
PASSWORD DEFAULTS LOADED	RH	-
PROG MODE START	LB	627
PROG MODE END	LS	628
TAMPER USER CODE	JA	461
TD (Time and Day) RESET	JT	625
TX BATTERY TROUBLE	XT	384
USER CODE CHANGED	JV	-
USER CODE DELETED	JX	-

(1) If command 143=1 is set then all CID codes are transmitted. If command 143=0 is set then all commands marked by ‡ are not transmitted.
(2) The alarm centre registers an anti-mask event as an anti-mask type lower than it actually is.

17 Technical data

Voltage supply

External voltage supply:	230V AC +/-10% (ambient temperature 20°C)
External power consumption:	1.0A maximum
Internal voltage supply:	19VAC / -10%
Internal power supply:	2.0A maximum
CPU power consumption:	150mA maximum
Power consumption of control unit:	35mA maximum
Emergency power supply:	12V DC, 7.0Ah lead rechargeable battery

Outputs

Transistor outputs:	12V DC, 0.5A maximum, negative switching
Loudspeaker:	2 x 16 Ohm loudspeakers parallel
AUX:	12V DC / 0.5A maximum
Relay outputs:	24V DC / 1A maximum
Additional Transistor outputs:	12VDC, 0.05A max.

Inputs

TR:	Tamper input from siren
Telephone fault:	+12V DC if fault present

Fuses

F1 – 12V AUX:	230V, 1A quick-acting
F2 – battery:	230V, 2A quick-acting

Specifications

Dimensions:	390mm x 310mm x 95mm (HxWxD)
Weight:	5kg
Internal time:	+/- 10 min./year, synchronised to mains frequency
Environment:	-10°C to +55°C max. 96% humidity

18 Troubleshooting

The alarm centre shows no reaction although mains and battery power are present.	Check mains and battery connections and the three fuses. Replace fuses with fuses of similar rating if necessary.
The display shows one or more open zones (although all alarm contacts seem to be at rest) and the alarm centre cannot be activated or there is no permanent error tone.	Remove all connections of the alarm zone concerned and replace them by a wire jumper between CCT. If the zone is displayed as closed, the cause of the problem is in the connected alarm contacts/cables. Check them using a circuit tester. There may be a short-circuit between the alarm and tamper zone or the 0V contact.
The alarm centre reports continuous tampering.	Check the tamper contacts of the alarm centre and the control units. The springs of these contacts must be pressed in fully. Check the connected tamper contacts with a circuit tester and make sure there is no short-circuit. Make sure that the tamper zone of the siren is also terminated with 0V.
The triggering of a sensor does not result in an alarm.	If you have connected more than one sensor in an alarm line, check that all NC contacts are connected serially and not in parallel, then activate all connected sensors simultaneously. Make sure that you have removed the wire jumper of the zones that was fitted in the factory. Has the alarm zone been correctly programmed?
External alarm does not start.	Use a multimeter to check the transistor output to which n the siren is connected to ensure correct functioning of the alarm centre. Then connect the siren directly to the battery and check its function.
Tamper alarm is not triggered although a tamper contact was opened on an alarm sensor.	Check that all tamper contacts are connected in series. If they are connected in parallel, all contacts must first be opened to trigger a tamper alarm. There may be a short-circuit in the wiring.
Sensors trigger a false alarm.	Check that the sensors have been installed and adjusted according to the manufacturer's instructions. In the case of motion sensors, check that they have been mounted to face into the room and not towards any heat source. In the case of door/window opening contacts, check that the switching distance between the reed contact and the magnet does not have too much movement. Check the wiring. Check that solder joints and clamps are sound. If cables are laid too near to high-voltage lines, errors can also occur.
Program and user code forgotten.	Disconnect mains and auxiliary power supply from the alarm centre. Short-circuit the "NVM RST" jumper under the connector block of the additional transistor outputs and then, with the jumper still short-circuited, reconnect the auxiliary power supply and then the mains supply. All code and chip keys deleted. The user code 1 (master code) is reset to 1234, and the installer code 7890. The programming, except for date/time, remains intact.
You think the alarm centre has a malfunction.	Restore the factory settings (program menu option 98) and check the function again. The fault is usually in the external cabling.

19 Index of Programming Functions

UK

20 System plan

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

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

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