



Security Tech Germany



GSM/UMTS/LTE-speech dialer

(UK) Installation and Operating Instructions

AZWG10030



1. Preface

Dear customer,

Thank you for purchasing this dialer for voice and text. This device is built with state-of-the-art technology.

These instructions contain important installation and operation information. Follow the directions and instructions in this manual to ensure safe operation. Store these instructions in a safe place for future reference. These instructions are part of the device. When you pass the device on to third parties, remember to include these instructions with the device.

Everything possible has been done to ensure that the contents of these instructions are correct. However, neither the author nor ABUS Security-Center GmbH & Co. KG can be held liable for loss or damage caused by incorrect or improper installation and use or failure to observe the safety instructions and warnings. No liability can be accepted for resulting damage. No part of the product may be changed or modified in any way. If you do not follow these instructions, your guarantee claim becomes invalid.

We want you to work only with devices that incorporate state-of-the-art technology. For this reason, we reserve the right to make technical modifications.

We reserve the right to make changes to these instructions without prior notice.

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2. EU declaration of conformity

ABUS Security-Center hereby declares that the radio equipment type AZWG10020 is in compliance with RED Directive 2014/53/EU and RoHS Directive 2011/65/EU. The full EU Declaration of Conformity text can be found at:

www.abus.com Item search AZWG10030/Downloads.

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4. Meaning of the symbols



EU Directive WEEE 2012/19/EU regulates the proper return, handling, and recycling of used electronic devices. This symbol means that in the interest of environmental protection the device must be disposed of separately from household or industrial waste at the end of its service life in accordance with applicable local legal guidelines. Use devices can be disposed of at official recycling centers in your country. Obey local regulations when disposing of material. Further details on returns (also for non-European countries) can be obtained from your local authority. Separate collection and recycling conserves natural resources and ensures that all the provisions for protecting health and the environment are observed when recycling the product.



Caution!

This symbol indicates important notes in these instructions which must be observed.



This symbol indicates special tips and notes on the operation of the unit.

5. Safety information

General

Open the device carefully. Avoid direct physical contact with the PCB. Electrostatically sensitive devices can be damaged.

Use suitable tools for mounting and installation.

Ensure professional installation of cables and wires to avoid short circuits.

No part of the product may be changed or modified in any way. Violations result in the loss of the device warranty.

Do not expose the equipment to significant physical stress (knocks, vibrations, etc.). Incorrect handling and bad transport conditions can lead to damage to the equipment.

The device is not waterproof. Avoid direct contact with water.

The device may only be used within the specified temperature range.

For details, see the technical data at the end of these instructions.

Connections and standards

This device uses Safety Extra Low Voltage (SELV). The circuits of the zones, the circuits of the switch outputs, and the 12 V power supply of the ABUS alarm control panels also operate in this voltage range.

SELV is a low electrical current that offers special protection against electric shocks based on its low level and insulation compared to higher voltage circuits.

Cleaning

- Dusty devices must be cleaned. You can clean dust from the air vents using a vacuum cleaner or compressed air. If necessary, you can remove the dust with a brush.
- You can clean the surface using a cloth slightly dampened in soapy water. Only use suitable microfiber cloths for high-gloss surfaces.
- Do not allow water to penetrate inside the device.
- Do not clean the device in a dishwasher.
- Do not use sharp, pointed, abrasive, or corrosive cleaning materials or hard brushes.
- Do not use chemicals.
- Do not use flammable liquids for cleaning the device.

6. Scope of delivery

- 1 x GSM/UMTS/LTE-speech dialer
- 1 x quickguide
- 1 x mobile antenna
- 2 x housing screws
- 1 x installation material (2 wall plugs, 2 screws)
- 1x Sticker with key functions

7. Main features

The device transmits a wide variety of information to landlines and mobile phones. You can either operate the device as a standalone version or connect it with the alarm control panel. Most alarm control panels have a voltage output for external devices. This also connects the device with the backup battery.

- **Cellular/Mobile**

The device interacts directly with the Mobile cellular network. The device is not tied to any wireless provider. It can be operated with normal SIM cards.

- **8 inputs**

The device has eight trigger inputs. Each input can be assigned to a voice message and/or a text message (SMS). The device can also send a voice message and/or text message (SMS) if the trigger of the input has been reset. Normally you connect the inputs with “communication” outputs or alarm outputs (sirens) of alarm control panels. However, you can also connect other devices to the inputs, such as smoke detectors or temperature sensors. The device allows you to program the polarity of the trigger. The device can be triggered with a positive or negative voltage potential. The voltage potential can be applied or removed.

- **10 contact numbers**

The device allows you to store up to 10 contacts. In addition to a telephone number, each contact can be assigned a name and a message type (text or voice).



Caution!

Do not use the device to call the police on emergency numbers (110, 112, 911, etc.). Observe the local regulations in this regard.

- **8 voice messages plus 1 location message**

The device has a microphone and a loudspeaker. It allows you to record and play back up to 8 alarm messages, 8 restore messages and a general location message. The location message usually contains the name and address of the monitored premises. Each message can be up to 30 seconds long. When the device sends an alert, the alert message and location message are transmitted together.

- **8 text messages plus 1 location message**

The device can also send text messages via SMS (Short Message Service). The device can store up to 8 text alarm messages, 8 text reset messages, and a general text location message. The text location message usually contains the name and address of the monitored premises. Each message can consist of up to 40 characters. If the device sends an SMS message, the text alarm message and text location message are transmitted together. The device can also send text messages on the analog line.

- **Confirmation and abort functions**

The called contact can confirm incoming voice messages on his phone and abort further dialing procedures.

- **4 outputs**

The device has four programmable outputs. They can be triggered by a number of different system events. The outputs can also be switched remotely over the telephone. The status of outputs 1 and 2 is shown next to the display with colored LEDs. The outputs are negative switching transistors.

- **Temperature sensor**

The current ambient temperature can be shown on the display. Outputs can be switched if the temperature falls below a set minimum or if a set maximum temperature is exceeded.

- **Time and date**

The device has an internal clock. The current time and date can be shown on the display. The date and time are added to text messages and entries in the event log.

- **Listening and speaking mode**

In the listening and speaking mode, you can use the built-in microphone and loudspeaker to listen in on your property and speak into the microphone if needed.

- **Memo function**

The device allows you to record short audio messages. This can be done directly on the device locally or via remote access. The presence of a message can be indicated on the display and by beeps. Triggering of an input can also automatically trigger a recording. In the event of an alarm, ambient sounds can be recorded.

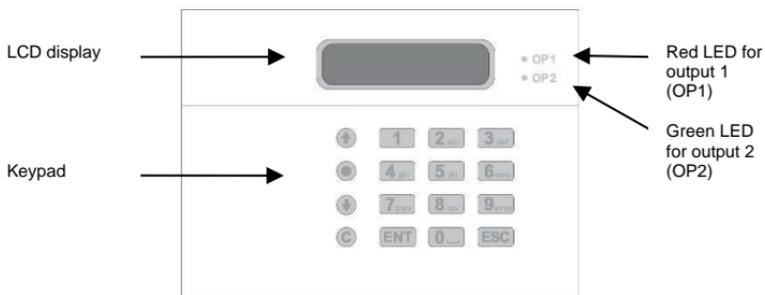
- **Remote access by telephone**

Enabling this feature allows you to dial in to the device through the telephone network. This allows you to remotely switch outputs, use the listening and speaking mode, listen to recorded messages or record new ones if required, leave a memo, reprogram phone numbers, and test the delivery of voice and text messages.

- **Inbox**

The device is able to receive text messages (SMS). These SMS messages can also be forwarded.

8. Display and keypad



LCD display
Red LED
Green LED

Two-line and backlit
Indicates status of output 1 (OP1)
Indicates status of output 2 (OP2)

Button	Characters
1	. , ? ! 1 @ , - & `
2 abc	a b c 2 A B C
3 def	d e f 3 D E F
4 ghi	g h i 4 G H I
5 jkl	j k l 5 J K L
6 mno	m n o 6 M N O
7 pqrs	p q r s 7 P Q R S
8 tuv	t u v 8 T U V
9 wxyz	w x y z 9 W X Y Z
0 _ _ *	0 , # *
	Scroll key, up or left
	Scroll key, down or right
	Recording and special functions
C	Delete
ENT	Confirm and play
ESC	Abort

9. Installation

Open the housing by removing the screws on the bottom. Now you can tip up the front part and unhook it at the top. The assembly is in the reverse order: hook the front part in at the top, fold it together, and tighten the screws.



Caution!

Disconnect the device from the power before performing any wiring work.

Please check the following prior to installation and mounting of the device:

- The type of analog telephone connection
- The account type of the cellular connection
- The physical location of the device and its antenna
- The cellular reception (sufficient and largely problem-free reception)

9.1 Location for device and antenna

If you want to access a cellular network with the device, you need to find a suitable location. The device itself should be placed at a location which is convenient for the user as well as favorable for laying cable. You also need to place the antenna so that you can get a good signal from the cellular network. The antenna cable is approx. 3 m long. Also look for a smooth, dry, and vibration-free surface at the place of mount.

Verification of sufficient signal strength of the cellular network

There are three ways to check the signal strength at the installation location:

1.

You can use a mobile phone. It must be registered on the same network as the SIM card you intend to use with the device.

If your phone displays at least three signal bars at the location of the device antenna, then the device should be able to work in this network. It is not enough to rely only on the signal strength indicator.

Make sure that you can make a call from the selected position.



When you test the signal strength, you need to keep your mobile phone at the exact spot where the antenna is to be mounted.

If you have a location with good signal strength, then the central axis of the device antenna must be placed exactly where the antenna of the phone is located. Do not deviate more than 20 mm from this location. The wavelength of the cellular signal is so short that even a change in position of 80 mm can change the signal strength significantly. This does not happen with a strong signal. But with a weak signal, it is possible that the device will not be able to register.

2.

If your mobile phone is not on the same network as the SIM card you want to install in the device, then insert the SIM card into your mobile phone. This requires that your mobile phone not be locked to the SIM card you normally use.

Now test the signal strength as described in point 1.

Note:

Once you have completed testing, remember to shut down your phone in the recommended manner before removing the SIM card. If you shut off the power abruptly (by immediately removing the battery from the phone, for example), the SIM card cannot unregister properly from the network. Some networks then block the SIM card for several hours.

3.

Use the device.



The SIM card should not be secured with a PIN. Turn off this security feature from a mobile phone. The SIM card must be able to register on the cellular network without entry of a PIN. It is not possible to enter a PIN on the device.

Make sure that the SIM card has been activated properly. Refer to the instructions you received when you bought your SIM card.

Insert the SIM card temporarily and connect the antenna. Power the device with voltage corresponding to the technical data.

When testing the signal strength, check whether the device is also registered on the desired cellular network. If the SIM card is not activated, the signal strength of the most dominant network in the location is displayed. This may

not be the home network of the SIM card. If the home network is not available, the SIM card can also connect to other cellular networks to place emergency calls (112, 911), for example. It then displays the signal strength of this cellular network.

For details on testing, see the “Test functions” section.

Recommendations for action in case of poor signal strength

If the signal strength is not good enough:

Look for a better position for the antenna

Switch to a different cellular network / to a different cellular provider

Telephone connection

The device is supplied with a 2 m long telephone cable with TAE connectors. The TAE connector in Germany can be plugged directly into a TAE socket of type N.



Caution!

This socket can only be a pure analog a/b connection. The 1st TAE box on your property is nowadays usually the interface to the public ISDN telephone network or to the public IP-based NGN telephone network. Only downstream of the switching unit or private branch exchange is a pure analog a/b connection available.

When using the PSTN module, we recommend the device be placed as close as possible to the telephone connection (to the telephone connection unit). If this is not possible, you should either use a proper telephone extension cord or connect the device directly to the telephone connection unit. (Details can be found later in the section on telephone wiring.)

9.2 Installation

If all conditions are met and you have found a good location, mount the base plate.

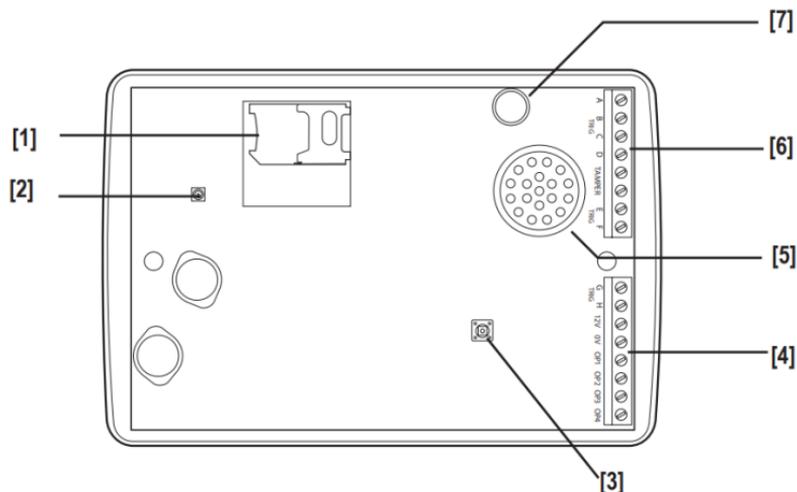


Check whether the supplied wall plugs and screws are suitable for the surface. Otherwise use wall plugs and screws appropriate for the existing surface.

Use the base plate as a template to mark the mounting holes. Drill holes at the marked positions with the diameter appropriate for the wall plugs. Insert the wall plugs.

Feed the cable through the base plate and fasten the base plate securely to the surface.

Overview of the mainboard of the front part



- 1 SIM cardholder
- 2 Antenna socket type MMCX
- 3 Tamper switch
- 4 Input G–H, power supply connection, outputs 1–4
- 5 Loudspeaker
- 6 Inputs A–D, tamper switch connection, inputs E–F
- 7 Microphone

9.2.1 Inserting the SIM card

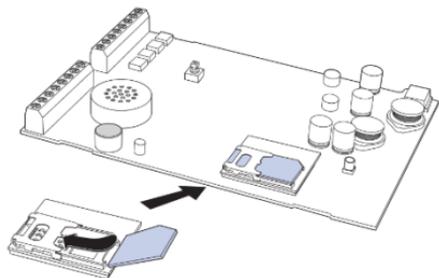


Caution!

The SIM card should not be secured with a PIN. Turn off this security feature from a mobile phone. The SIM card must be able to register on the cellular

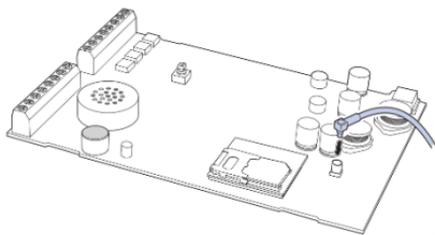
network without entry of a PIN. It is not possible to enter a PIN on the device.

Insert the SIM card into the SIM card holder as shown in the picture. The contact surfaces should face down. Ensure correct seating and that the SIM card is inserted in the proper orientation.



9.2.2 Antenna connection

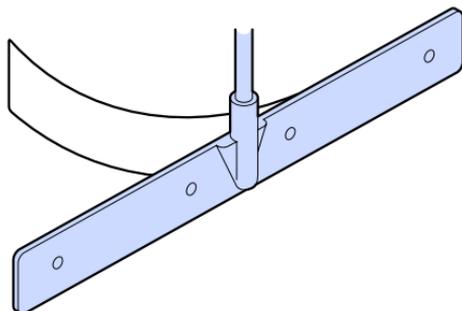
Connect the connector of the antenna cable to the antenna socket.



Use the supplied alcohol-soaked cloth to clean and de-grease the area on which you intend to install the antenna.
Remove the protective foil on the adhesive side of the antenna. Adhere the antenna to the cleaned surface.



The adhesive on the antenna bonds immediately. You cannot correct the position once the antenna is fixed in place.



9.2.3 Wiring on the mainboard



Caution!

Disconnect the device from the power before performing wiring work or making changes to the wiring.

Operating voltage (+12V/0V)

Connect the “12 V” terminal to the positive terminal and the “0 V” terminal to the negative terminal of the power supply.

As a voltage source,

- use a voltage output of your alarm control panel
or
- an external power supply unit (if the device is intended to be operated as a standalone device).

Pay attention in both cases to the amount of voltage and the current rating of the voltage source.



Caution!

The device requires a supply voltage of at least 10.5 V and at most 24 V.
The voltage source must be capable of carrying at least 200 mA.

Inputs A–H (A-TRIG to H-TRIG)

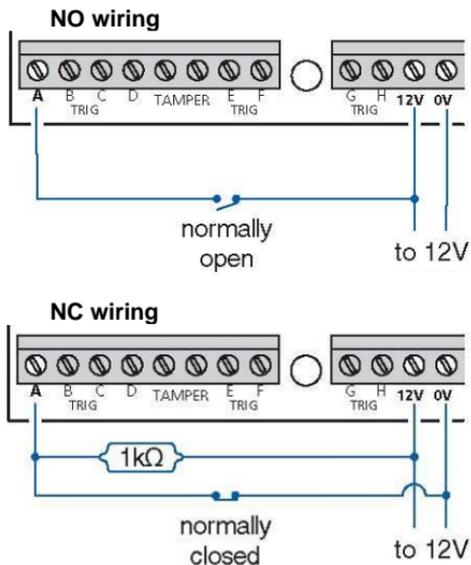
Connect the inputs A–H with relay outputs of your alarm control panel, for example. The possible variations are shown below.

If you are using transistor outputs, run the wiring accordingly.



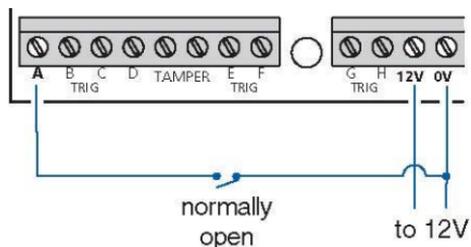
All inputs must be triggered with the same polarity. The polarity settings are adjusted under “System Options → Trigger Polarity”.

Positive triggering

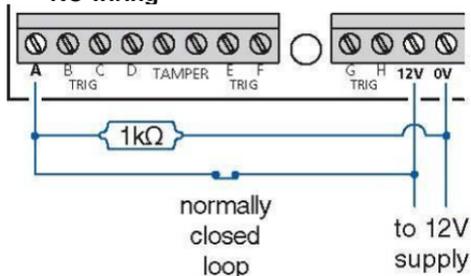


Negative triggering

NO wiring



NC wiring



Tamper

These connector clamps are normally connected to the tamper zone or tamper line of an alarm control panel. When the housing is opened, the NC contact of the device is also opened, interrupting the tamper line. This triggers a tamper alarm on the alarm control panel.

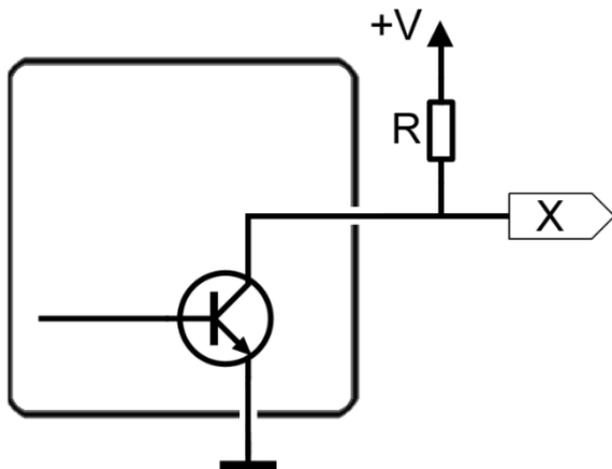
Outputs (OP1 to OP4)

Four negative switching transistor outputs are present.

Each output can switch a maximum of 100 mA, that is, the power consumption of the connected circuit of the external device should not be higher than 100 mA.

(maximum switching current of 100 mA)

Example



In the example wiring diagram, “R” represents an external device, such as an LED or relay.

If you have selected the “Outputs → Output Polarity = Negative” menu item:

Output status	Status of the external device, e.g. LED
Deactivated	OFF
Activated	ON

If you have selected the “Outputs → Output Polarity = Positive” menu item:

Output status	Status of the external device, e.g. LED
Deactivated	ON
Activated	OFF

If you want to trigger an external device with the voltage potential of the output only in terms of potential, wire the output as shown in the above example wiring diagram. The resistor R should have a value of approx. 1 k Ω .

You will then have the following potentials at point "X":

Output status	Menu setting: Output Polarity = Positive	Menu setting: Output Polarity = Negative
Deactivated	Negative	Positive
Activated	Positive	Negative



In the programming menu, you can separately set whether each of the four outputs takes on a negative or positive potential when activated.

10. Putting into operation

Once all necessary connection work has been completed, close the housing. Details can be found at the beginning of Section 9 (Installation).

You can now begin putting the product into operation.
Supply power to the device.

10.1 Factory settings reset

In order to ensure that all existing settings are deleted, a factory settings reset is recommended with a new installation.

1. Press and hold the 9 key. Disconnect the power from the device and then reconnect it. "Initialising" appears on the display. The following then appears on the display.

Factory Reset?
[ENT] or [ESC]

2. Now release the 9 key.
3. Press ENT to perform a factory reset and get to the language settings.
Press ESC to cancel the factory reset. The display switches back to standby mode.

10.2 Language settings

Change Language?
[ENT] or [ESC]

1. Press ENT. You can now select the language.
Press ESC to cancel the language setting. The factory reset is performed. The display switches back to standby mode.

↑↓ [ENT] to Select
English

2. Use the arrow keys to select the desired language.
German, French, Dutch, Danish, Italian, Polish, or English.
3. Confirm with ENT. The device switches to the selected display language and returns to standby mode.

11. Programming

The programming menu allows you to configure the device. It also provides a range of testing options to check your settings and identify any errors.



For a detailed table showing all the main menu items and all sub-menu items, see the Appendix.

Menu item	Description
Contact Details	Used for creating and managing up to ten contact names and their telephone numbers, and for selecting the relevant message type (text or voice).
Messages	Used for managing voice and text messages.
System Options	Used for setting the system options.
Access Codes	Used for setting the access codes for programming and operation.
Ack & Abort	Used for changing settings for acknowledging and canceling actions.
Outputs	Used for programming the four outputs.
Call Routing	Used for programming the call sequences.
Date & Time	Used for setting the system date and time.
View Log	Used for viewing the event log with date and time information.
Test Options	Provides test functions.

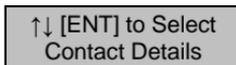
11.1 Starting the programming menu

1. In standby mode, the device displays the temperature, time, and date.



+29°C
12:07 01Jan13

2. Enter your passcode (default: 1234). The display now shows the first menu point.

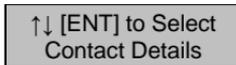


↑↓ [ENT] to Select
Contact Details

3. Use the arrow keys to scroll through the menu. Press a key from 1 to 0 to go directly to the desired menu item (for example, "9" to access the event log).
4. Press ENT to edit the selected menu item.
5. To delete individual characters, press the ESC key.
6. To exit, press ESC. The changes are not saved.
7. Press ENT to confirm the data entered or selection made.

Example 1: Setting the contact details

1. Enter your user code. The initial contact details menu point is then displayed.



↑↓ [ENT] to Select
Contact Details

2. Press ENT to select. Contact 01 is displayed.



Contact 04
Name 04

3. Use the arrow keys to scroll through the contacts. Press a key from 1 to 0 to go directly to the desired contact (for example, "4" to go to contact 4).
4. Press ENT to edit the selected contact.
5. Use the letter keys to change the contact name.
6. Use the arrow keys to move the cursor to the right or left. To delete individual characters, press the CLEAR key.
7. To confirm, press ENT. To exit, press ESC. The changes are not saved. You can now enter the number of the contact.

8. Use the number buttons to enter the telephone number.
To delete individual characters, press the CLEAR key.
9. Press ENT to confirm the telephone number entered. The display now shows the contact type.

Message 04 Type:
VOICE

10. Here you can specify whether the device is to send a voice message or a text message to the telephone number.
11. Press an arrow button to select VOICE or TEXT.
12. Confirm with ENT.
13. Repeat steps 3–12 to set the other contacts.
14. Press ESC to return to the main menu.

Example 2: Record voice messages

1. Enter your passcode. Scroll down using the arrow keys or use the number 2 key to display the Messages menu item.

↑↓ [ENT] to Select
Messages

2. Press ENT. The display shows "Voice Message".
Press ENT to select. The display shows the following:

Voice Alarm A
▶ = Play, ● = Record

3. Use the arrow keys to scroll down and select the desired voice message.
4. Press the record button and then speak clearly into the device. The device shows how much time has already elapsed.

Record Alarm A
SPEAK NOW...04s

5. Press the Record button again to stop recording.
6. To play the recorded message, press the ENT key. The voice message is then played through the integrated loudspeaker. Press CLEAR to delete the recorded message.
7. Repeat steps 3–6 to record further voice messages.
8. Press ESC to return to the main menu.

11.2 Ending/exiting the programming menu



You must leave the programming menu in order for the device to work as you have programmed it.

If you are in the programming menu, the device cannot start a calling operation upon triggering of inputs, for example.

1. Press the ESC button repeatedly until the display shows the following.

Press [ENT]
To Leave Menu

2. Press ENT to exit the programming menu. The standby screen is now displayed.
Alternatively, you can remain in the programming menu by pressing ESC.

11.3 Basic settings

In most operational cases, configuration of the following basic settings is sufficient:

Menu item	Description
Contacts	Used for creating and managing up to ten contact names and the telephone numbers, and for selecting the relevant message type (text or voice).
Messages	Used for managing voice and text messages.
Access Codes	Setting of the access codes for programming and operation
Date & Time	Used for setting the system time and date.



Note, however, the factory settings of the other menu items, which can be found in Section 14.1 “Overview of Programming Functions”, marked with “fr”.

E.g.:

- The triggering polarity is negative (menu item “Trigger Polarity”)
- Cellular is used as the primary transmission path (menu item “Line Priority”)
- When an input is triggered, messages are sent to all contacts (menu item “Call Routing”)

The following section describes all the possible settings in the menu.

12. Menu functions

12.1 Contact Details

The device can manage up to 10 contacts. The following parameters are assigned to these contacts:

- **Contact name:**
Each contact name can have up to 16 characters. Used to uniquely identify the destination so you can better remember the destination to which you want to send.
- **Contact telephone number:**
Each telephone number can have a maximum length of 24 digits. During programming, the "Record" key can be used to enter the following symbols:

* (**star**): Inserts a star (*) into the number.

(**pound key**): Inserts a hash (#) into the number.

, (**comma=dial pause**): Inserts a comma (,) into the number. The comma causes a dial pause of three seconds. In private branch exchanges, after the exchange access code is dialed, it is usually necessary to pause before the actual external telephone number can be selected. E.g.:

0, 0173 1234567

If you want to reach a telephone in another country, you must also include the international dialing code.

Example:

The device is connected to an extension of a private branch exchange in Germany and is supposed to reach a telephone that has the home network vodafone in the UK.

0 0044 7785 1234567

0 Exchange dial-up prefix (exchange access code)

0044 Dial-up prefix for reaching the international telephone network (00) and country code prefix for the UK (44)

7785 Network prefix for vodafone UK

1234567 actual telephone number

- **Message type:**

- Voice**

- The device dials the contact number, plays the general and the specific voice message, and repeats them a total of four times.

- Text**

- The device dials the contact number and forwards the text message (SMS) to the relevant number.

12.2 Messages

The device can send either voice or text messages (SMS) to the stored contacts. A voice message or a text message can be individually defined for each of the eight alarm inputs (A–H). Additionally, a general text message or voice message can be transferred for each message type. This message generally includes details on the location.

As an additional function, the device can transfer restore messages when the alarm cases are no longer present. A restore message can be stored for each alarm input (A–H) in voice or text form.

You can program the destinations in the menu item “Call Routing”.

12.2.1 Voice Memo

Each voice message can be up to 30 seconds long (long play mode). The device has an integrated microphone and loudspeaker for recording and playing voice messages. Messages should be recorded so that they reflect the on-site status. For example, if an alarm control panel output is to switch due to a fire alarm, then the device control should trigger a message stating that a fire has broken out at the location.



At the end of the message, it is recommended that you record instructions stating that the message must be acknowledged by pressing **8** on the telephone. Otherwise, the next programmed telephone number is dialed.

12.2.2 Text Message

The device can send text messages using the default SMS service (Short Message Service) to SMS-enabled end devices (mobile phones or landline phones).

The device can manage eight alarm messages (SMS) of up to 40 characters.

The “location message” (location text) with the time and date of the device is transferred automatically when the device sends a text message. A “location message” should usually give details about the protected area or the device’s installation location (such as name and address).

12.2.3 Inbox

The device is able to receive text messages. For example, these can be reminders from your service provider that your balance is low (if you use a “pay as you go” or “prepaid” SIM card) or other incoming SMS messages sent to the mobile/cellular number of the device. These SMS messages can also be forwarded (see menu item “Call Routing → Text Forward”) Incoming SMS messages are stored on the SIM card. How many SMS messages can be stored depends on the capacity of the SIM card.



The device cannot receive SMS messages via the analog telephone connection.

The inbox has two sub-menu items:

View Messages

Delete Inbox

Once you have read a message, you should delete it.

12.3 System settings

Various system settings relating to how the device works can be made in the system settings.

12.3.1 Trigger Polarity

The device can be triggered by negative (0 V DC; default) or positive (+12 V DC nominal, +10.5 to +24 V) polarity. This setting applies globally for all eight inputs (A-H TRIG).



Caution!

The setting must correspond to the input wiring.

12.3.2 Remote options

Remote Access

When ON, you can remotely control the device from another telephone. When OFF*, the device does not allow remote access (factory setting).

Rings to Answer

Here you specify the number of rings until the device accepts incoming calls to the remote control. (How many times should it ring before the device “picks up the phone”.)

You can make a selection from “1 ring” to “20 rings”.

1 Ring Answer

By enabling this function, it is possible to reach the device in a targeted manner via remote access, even if the phone line is shared with other connected devices, such as answering machines or fax machines.

Make sure that “Rings to Answer” on the device is set **higher** than the number of rings that are set for the other downstream devices. Otherwise, the downstream answering machine will not be able to take a normal call, or the downstream fax machine will not be able to receive a fax.

If this function is disabled (OFF), the device will answer all incoming calls after the number of rings set in the menu item “Rings to Answer”.

To acquire remote access (with “1 Ring Answer” = ON):

1. Dial the telephone number of the device with a touchtone telephone. Let it ring two or three times, and then hang up.
Be sure not to let it ring more than the set number of rings for the answering machine or fax. Otherwise, these devices will pick up the call. You should also not let it ring for more than the set number of rings for “Rings to Answer”.
2. Wait about 10 seconds, then dial into the device again. After the first ring, the device will immediately pick up the line. You will now hear a series of high tones.
If the device does not respond, wait two minutes and repeat steps 1 and 2.
3. Now enter your four-digit remote code on your telephone. If the code is correct, you will then hear a triple acceptance tone. Remote access is now active.



Also note the information in Section 13.4 Remote Access.

12.3.3 Display Options

Flash On Message

- When enabled (ON), the backlight of the display flashes when a reminder message (memo) is waiting (default). Playing the reminder message stops the flashing.
- When the function is deactivated (OFF), the backlight does not flash.

Beep On Message

- When the function is activated (ON), the device beeps every minute when a reminder message (memo) is waiting. Playing the reminder message stops the beeping.
- When the function is deactivated (OFF), the device does not beep (default).

Temperature Display

- When the function is activated (ON), the display shows the current ambient temperature in degrees Celsius (default).
- No temperature is displayed when this function is deactivated (OFF).

Phone Line Fault

Any telephone line faults are stored in the event memory.

- Display Off
When this option is selected, the telephone line fault is only stored in the event log (default).
- Display On
When this option is selected, the device indicates every telephone line fault on the display with "Phone Line Fault". No warning signal sounds.
- Display and Beep
When this option is selected, the device indicates every telephone line fault on the display with "Phone Line Fault", and the device beeps every minute. To mute the tone if the fault persists, open the programming menu.
Note:
It can take up to 60 seconds before the fault is displayed.

12.3.4 Alarm Levels

High Temperature

In this function you can specify a maximum temperature above which an output of type “High Temperature” switches (see also menu item “Outputs”). A value between 0 °C and 50 °C can be set (the default is 40 °C).

Low Temperature

In this function you can specify the minimum temperature below which an output of type “Low Temperature” switches (see also menu item “Outputs”). A value between 0 °C and 50 °C can be set (the default is 5°C).

Supply Low

In this function, you can set the operating voltage level below which an output of type “Low Voltage” switches (see also menu item “Outputs”). If the operating voltage drops below this value, a “Low Voltage” message is stored in the event memory. A value between 8 V and 24 V can be set (the default is 10 V).

Signal Low

In this function, you can specify the cellular signal level below which an output of type “Signal Low” switches (see also menu item “Outputs”). If the cellular signal level falls below this value, a “Signal Low” message is stored in the event memory. A value from 1 to 7 can be set (the default is 3). This is equivalent to the bars of signal strength on a mobile device (see also menu item Test Options → test mobile[PB1] → Signal Strength).

12.3.5 Recording Options

Long Play

When activated (ON), spoken messages have a maximum recording length of 30 seconds.

When deactivated (OFF), spoken messages have a maximum recording length of 15 seconds. The recording quality is higher in this case (default).

Automatic Recording

With this option it is possible to record any sounds or voices in the area of the device when an alarm is triggered.

If this option is activated (ON) and any input is triggered, then the microphone is switched on and recording starts. The recording is then saved as a “memo”. The recording can be called up through remote access (see

the “Remote functions” section) or using the memo function on the device itself (see “Memo function – play”).

An output of type “Message Waiting” also switches if such a memo exists.

When deactivated (OFF), no messages are caused to be recorded by the trigger (default).

12.3.6 Report Options

Use Auto Report

- To regularly check whether your chosen transmission path is functional and whether the destination numbers can be reached
- To prevent the wireless provider from disabling your wireless connection. This can happen if there is no activity and no calls placed from this connection for a long time (when using pay-as-you-go or prepaid cards).

Auto Report

When activated (ON), the device will automatically dial the programmed telephone numbers and send the “location message”.

(See menu item Call Routing → Auto Report → Auto Report On)

When the function is deactivated (OFF), no auto reports are started (default).

Note: The auto reports must be confirmed by the recipient on the telephone, or else the number will be dialed again repeatedly!

Report Time

Report Time

Here you can set the desired time at which the auto report is to start (the default is 12:00 noon). Only full hours are possible.

Report Day

Here you can set the desired day of the week for the auto report to start (the default is Mo).
So, Mo, Tu, We, Th, Fr, Sa, or daily

Report Interval

Here you set the desired time interval of how many weeks are to pass between auto reports (the default is 1 week).

Setting options: from every week up to every 12 weeks, that is, the shortest interval is one week, and the longest interval is 12 weeks.

12.3.7 Change Language

Here you can change the language of the display and of the log without having to carry out a factory reset. The available languages are:

Deutsch, Francais, Nederlands, Dansk, Italiano, Polish, English

12.3.8 Summer/Winter Time

When activated (ON), the device will automatically switch between summer (daylight savings) and winter time. The dates correspond to the dates specified in the country of the language selected (default).

If deactivated (OFF), you need to manually adjust the time in the menu item "Date & Time" to winter or summer (daylight savings) time on the corresponding dates.

12.4 Access codes

Operation of the device is protected from unauthorized access by two codes:

12.4.1 Changing the passcode

This 4-digit passcode is required for local programming, local operation of the device, and canceling dialing processes. **The default is "1234".**

12.4.2 Changing the remote code

This 4-digit remote code is necessary for remote control of the device. **The default is "5678".**

12.5 Ack & Abort

12.5.1 Abort options

Due to a mistake or a malfunction of upstream technology, it is possible that the device may be triggered accidentally. This can lead to unwanted transmission (dispatch) of a message.

A variety of “abort options” allows you to determine whether and how these dialing attempts may be canceled.

When a call attempt is aborted, the device hangs up immediately and returns to its normal standby mode.



The initial alarm text message cannot be canceled. It is usually sent immediately when an input is triggered (an alarm is present).

None:

Dialing attempts can never be canceled (default).

Passcode:

Dialing attempts can only be canceled by entering the passcode.

Code or Restore:

Dialing attempts can be canceled

- By entering the passcode
- By restoration of the normal state of the affected input

Restore Only:

Dialing attempts can be canceled only by restoring the normal state of the affected input.

12.5.2 Ack (acknowledge):

Here you set whether the device should dial the other contact addresses after confirmation or whether it should cancel the dialing procedure.

The device establishes a connection and transmits the message. Now the device requires a confirmation signal from the receiver that the message has arrived.

To confirm the call, the recipient must press the number 8 on the telephone keypad.

If the call is not confirmed, then the device dials the next programmed contact number.

Anyone:

If the message is confirmed, further dialing attempts will be canceled for this alarm trigger (default).

No One:

After the confirmation message, the device will not call this contact again. The device now calls all other contact addresses for this alarm trigger.

12.6 Outputs

Here you can separately specify the type and polarity for each output 1 to 4.

The device has four programmable outputs (OP1 to OP4).

OP1 = output 1

OP2 = output 2

OP3 = output 3

OP4 = output 4

With these outputs, a number of different functions can be implemented, for example:

- Triggering of signaling devices
- Switching of lighting, fans, etc.

The outputs can also be controlled remotely.

Output types

OFF:

The output is permanently disabled (default).

Message Waiting:

The output is activated when a message is waiting and deactivated when the message has been played once.

Remote Access:

The output is activated upon remote access via telephone. The output is reset when the remote dial-in is finished.

High Temperature:

The output is activated when the preset temperature threshold is exceeded. The output is deactivated when the temperature falls below the defined threshold again. See setting in "System Settings → Alarm Levels → High Temperature"

Low Temperature:

The output is activated when the preset temperature threshold is undershot. The output is deactivated when the temperature rises above the defined threshold again. See setting in "System Settings → Alarm Levels → Low Temperature"

Listen Active:

This output is activated when listen mode is started. See also "Operation → Remote Access → Functions in Remote Access Mode"

Speech Active:

This output is activated when speech mode is activated. See also "Operation → Remote Access → Functions in Remote Access Mode"

mobile In Use [PB2]:

The output is activated when the device is active on the mobile network.

Call Active:

The output is activated when the device triggers and a dialing procedure has been started. The output is deactivated after the device has called all contacts or if the call is canceled.

Call Successful:

The output is activated when the device has transmitted the message successfully. The output is deactivated when the device is triggered again.

Call Failed:

The output is activated if the device could not transmit the message successfully. The output is deactivated when the device is triggered again.

Remote Control 1–4:

These outputs can be activated or deactivated remotely over the telephone.

See also "Operation → Remote Access → Functions in Remote Access Mode"

Supply Low:

The output is activated when the preset voltage threshold is undershot. The output is deactivated when the voltage rises above the defined threshold again. See setting in "System Settings → Alarm Levels → Supply Low"

Signal Low:

The output is activated when the preset signal strength threshold is undershot. The output is deactivated when the signal strength rises above the defined threshold again.

See setting in “System Settings → Alarm Levels → Signal Low”

Polarity of the outputs

Here you specify what polarity the output has when activated.

The polarity can be selected separately for each of the 4 outputs.

An output can have negative or positive potential in the two different switching states.

Output status	Menu setting: OP polarity negative	Menu setting: OP polarity positive
Deactivated	Positive	Negative
Activated	Negative	Positive

12.7 Call Routing

Here you determine which contacts receive voice messages and which contacts receive text messages.

Examples:

The voice message for alarm A can be sent to the contacts 1, 2, and 3. The voice message for alarm B is only sent to the contacts 4 and 5.

The text message for alarm G can be sent to the contacts 6, 7, and 8. The text message for alarm H is only sent to the contacts 9 and 10.

Each digit in the display (1234567890) stands for a contact (1 to 10). Use the number keys (1–9 and 0) to select the contacts. The digit is displayed when the contact is selected. A star (*) is displayed when the contact is excluded.

There are four options for call routing.

12.7.1 Trigger Alarm

Determines which contacts to call (1 to 10) when the corresponding alarm input is triggered.

12.7.2 Trigger Restore

Determines which contacts are called (1 to 10) when the corresponding alarm input returns to its normal state (e.g. an upstream alarm system is reset after an alarm).

12.7.3 Auto Report

Determines which contacts (1 to 10) are called by the auto report.
See also the settings in "System Options → Report Options"

12.7.4 Text Forward

Determines the contacts (1 to 10) to which received SMS messages are forwarded.

See also "Messages → Inbox"

12.8 Date & Time

Here you set the current date and the current time.

This data is used for:

- The date/time stamp for the event log
- The date and time are inserted into text messages (SMS)
- The date and time appear on the standby screen



The date is displayed in the format dd.mm.yy.

The time is displayed in 24-hour format.

The internal clock is intended only as a guide. The accuracy is not comparable with a good quartz watch.

12.9 View Log

The device has an event log with a time and date stamp. Important system events are logged here. The log can store 128 entries. The memory operates as a non-volatile circular buffer, i.e.:

- The entries are retained even when the power is interrupted
- The oldest entries are overwritten with the newest entries when the capacity is reached

Event	Meaning
Memo Left	Memo available
Memo Cleared	Memo was deleted
Trig A Alarm	Triggering of input A Inputs B–H analogously
Trig A Clear	Input A is again in the normal state Inputs B–H analogously
Call Name 01	Call to contact 1 Contacts 2-10 analogously The contact name is displayed as programmed. "Name 01" is the factory setting.
Ack Name 01	Acknowledgment of the message by contact 1 Contacts 2-10 analogously The contact name is displayed as programmed. "Name 01" is the factory setting.
User Abort	Message is aborted using passcode
Sys Restart	System start of device. The device was switched on.
Temp H Alarm	The temperature has exceeded the preset upper temperature limit
Temp H Clear	The temperature has fallen below the preset upper temperature limit again
Temp L Alarm	The temperature has fallen below the preset lower temperature limit
Temp L Clear	The temperature has exceeded the preset lower temperature limit again
Remote Start	Remote access established
Remote Clear	Remote access ended
Time changed	System date and system time have been changed
Supply Low	The supply voltage has fallen below the preset lower voltage limit

Supply OK	The supply voltage has again exceeded the preset lower voltage limit. The supply voltage is again in the normal range.
Auto Report	Automatic test call
Log Cleared	Event log was deleted  After a complete factory reset, the event log is deleted.
No Ack Name 01	No acknowledgment of the message by contact 1 Contacts 2–10 analogously The contact name is displayed as programmed. “Name 01” is the factory setting.
Call Fail Name 01	Call to contact 1 failed Contacts 2–10 analogously The contact name is displayed as programmed. “Name 01” is the factory setting.
mobile Signal Low	The mobile signal has dropped below the preset value for the low end of the cellular signal strength.
mobile Sig. OK	The mobile signal has again exceeded the preset value for the low end of the mobile signal strength. The mobile signal is present and is again in the normal range.
Call Cellular	Call being made over the cellular network

12.10 Test Options

You use the various tests to check the proper functioning of your device and whether the settings made are correct.

12.10.1 Test Messages

In this menu item, you test messages (voice and text). The device transmits the selected message to the selected contacts as voice or text.

Use the arrow keys to select the various alarm messages and restore messages.

Route Alarm H
To *****

By pressing the number keys (1–9 and 0), you can select the available contacts (1–10).

Route Alarm H
To *2*4*6**0

Press ENT to start the test; press ESC to cancel the test at any time.

Now each step of the testing process is shown on the display.

Example of a test on the analog line:

Via PSTN

Idle > Clearing Call > Wait Dial Tone > Dialing Number > Wait for Ring > Playing Message > Ack Received

The last message “Ack Received” indicates that the called contact has confirmed the incoming call by pressing “8”.

The explanations of all possible display messages can be found below:

"Idle"	The device is idle and not placing any calls at the moment.
"Clearing Call"	The device is disconnecting the telephone connection of the downstream device.
"Wait Dial Tone"	The device is waiting for the dial tone from the telephone network.
"Dialling Number"	The device is dialing the telephone number of the destination.
"Wait for Ring"	The devices is waiting for the ring tone from the destination.
"Connecting"	The device hears the ring tone and is waiting for the other party to pick up the phone.
"Wait for Clear"	The device is waiting for the other party to hang up (end of call).
"Call Busy"	The telephone number of the destination is busy.
"Call Fail"	The call failed.
"Call Error"	Call error (such as no cellular signal present).
"Call No Ring"	The device did not receive a ring tone from the destination.
"Call No Answer"	The destination is not answering.
"Connected"	The telephone connection has been established.
"Playing Message"	The device is currently playing the voice message.
"Ack Received"	A person on the other end of the line has pressed the 8 key. This acknowledged the call.
"Sending SMS"	The device is currently sending an SMS message.
"SMS OK"	The SMS message was received by the SMS service center.
"SMS Fail"	The device could not send the SMS message.

"Wait"	The device is waiting for initialization of the cellular modem.
"Not available"	Cellular problem (such as an error in the subscriber's telephone number).
"Wait"	The device is waiting for data from the Cellular network.
"FAIL"	Time-out during setup of the cellular connection.

12.10.2 Test Outputs

You check the operation of the four outputs using this menu item. Each output can be activated and deactivated individually.

Press the number keys 1 to 4 to individually switch each output. The LEDs OP1 or OP2 light up when output 1 or 2 has been activated.

12.10.3 Test Triggers

You use this menu item to check the correct wiring of the inputs. You now trigger the respective inputs. When correctly triggered, the device will display the associated letter A–H of the input on the display.

Display when idle

//*/*/*/*/*/*

Display with correct triggering of all 8 inputs.

A/B/C/D/E/F/G/H



In this test, no telephone connections are set up.

12.10.4 Test Supply

Here you check the value of the supply voltage.

Press ENT. The current value of the supply voltage value is displayed (such as 12.3 V).



For technical reasons, the largest display value is just 25.5 V.

The device can operate with a supply voltage between 10.5 V and 28 V.

12.10.5 Software Version

Here the latest software version of the device is displayed with the date of release.

13. Operation

13.1 Acknowledgment of a voice message

The device requires a call acknowledgment. This is how the device knows that the transmitted voice message has been received.

A contact receives a call from your device. If the person who answers the phone believes they can help, they acknowledge the call by pressing the 8 key on telephone. If a called contact does not confirm the message and instead hangs up, the device continues to send the message to the other contacts.

Provide instructions to your contacts in advance and also let them know about this function in the recorded voice message.

- Answer the telephone as normal when it rings. The message is now repeated several times.
- If you have understood the message, then acknowledge it by pressing **8**. You will now hear a confirmation tone from the device, and the line is disconnected.
- Deal with the message contents appropriately.

13.2 Canceling an alarm call

If the device was triggered accidentally or if you want to stop the call sequence, you have two options:

- **Entering the passcode**
To cancel the dialing process, enter your 4-digit passcode.
Note: This function must be authorized under "Ack & Abort".
- **Resetting the input signal**
The input trigger must be canceled in order to abort the procedure. This is normally made by resetting the upstream alarm control panel, for example.
Note: This function must be authorized under "Ack & Abort".



When sending text (SMS) messages, the device usually sends the first SMS immediately. A user is not likely to be able to react quickly enough to cancel this message. If a user cancels sending of a text (SMS) message, then the second and third SMS, etc., will probably not be set.

13.3 Memo function

The device has a "memo" function. This allows you to locally record a voice memo. The maximum recording time is 16 s.

Once a voice memo is recorded, the display shows "*** MEMO WAITING ***".

Record

The device is in standby mode, that is, the display shows the standby screen.

Briefly press the red record button to record a memo. Speak clearly into the device. The device shows how much time has already elapsed.

To stop recording, press the record button again briefly. The display now shows "*** MEMO WAITING ***".



The device can be programmed so that when there is a waiting memo, the backlight of the display flashes and a beep sounds (see "Display Options").

Play

The display indicates a waiting memo (** MEMO WAITING**).

Press ENT to play back the memo.

Press ESC to cancel playback.

Press CLR to delete the memo.

After deletion, the display returns to standby mode.

13.4 Remote Access

This functionality enables remote control of the device using a telephone connection. For example, you can remotely record messages, listen in on the premises, or use the outputs to switch the lights.

13.4.1 Remote access through dial-in

With this option, you dial into the device remotely.

Note:

"Remote Access" must be turned ON. See "Menu Functions → System Options → Remote Options".

Please pay attention to the information under System Options → Remote Options → 1 Ring Answer" if there are other devices on the analog telephone line used by the device.

Dial-in with function “1 Ring Answer” OFF

1. Dial into the device by dialing the device's telephone number.
Note: The device accepts the call after the set number of rings (see “Rings to Answer”). You will hear several beeps.
2. Now enter your 4-digit remote access code (factory setting: **5678**). A confirmation signal sounds if the entered code is correct. You are now in remote access mode. The options that are now possible are described later in the Functions section.

Dial-in with function “1 Ring Answer” ON

1. Dial into the device by entering the telephone number of the device.
2. Let it ring once or twice and then hang up.
3. Wait about 10 seconds and then dial into the device again. The device now accepts the call immediately after the first ring. You will hear several beeps.
4. Now enter your 4-digit remote access code (factory setting: **5678**). A confirmation signal sounds if the entered code is correct. You are now in remote access mode. The options that are now possible are described later in the Functions section.

13.4.2 Remote access through an alarm message

With this option, you take action after an alarm call from the device. In this case, the called contact can start remote access mode after confirmation of the message.



“Remote Access” must be turned ON. See “Menu Functions → System Options → Remote Options”.

Message confirmation and start of remote access mode

1. Answer the telephone as normal when it rings.
2. Listen to the message. The message is repeated several times.
3. If you have understood the message, you have two options:
 - Press the **8** key on your telephone. The message is confirmed as usual, and the call ends.
 - Press the **star** key (*) on your telephone. This confirms the message, **and** remote access can be started.
4. You will hear several beeps.
5. Now enter your 4-digit remote access code (factory setting: **5678**). A confirmation signal sounds if the entered code is correct. You

are now in remote access mode. The options that are now possible are described later in the Functions section.

13.4.3 Functions in remote access mode



Caution!

If 60 seconds pass without a command being sent, the device terminates the telephone connection automatically.

After a command is sent, the device maintains the telephone connection for 5 minutes.

Pressing the pound key (#) on the telephone ends remote access.

The following functions can be performed in remote access mode. To enter commands, you use the number keys on your telephone keypad.

Function	Telephone key sequence and notes
Switch outputs 1–4	*11 Switch output of type “Remote Control 1” On: High-frequency signal 1x Off: Low-frequency signal 1x
Switch outputs 1–4	*12 Switch output of type “Remote Control 2” On: High-frequency signal 2x Off: Low-frequency signal 2x
Switch outputs 1–4	*13 Switch output of type “Remote Control 3” On: High-frequency signal 3x Off: Low-frequency signal 3x
Switch outputs 1–4	*14 Switch output of type “Remote Control 4” On: High-frequency signal 4x Off: Low-frequency signal 4x

Listening and speaking mode	<p>*3 (Listen in on the premises)</p> <ul style="list-style-type: none"> • Then press 3 to switch between listening and speaking • 0 ends listening and speaking mode <p>On the device, you can switch between listening and speaking by pressing ENT.</p>
Play alarm voice messages A–H (1–8)	<p>4</p> <ul style="list-style-type: none"> • Then press the digit for the corresponding voice message (1=A, 8=H) • 0 ends playback
Record alarm voice messages A–H (1–8)	<p>*4</p> <ul style="list-style-type: none"> • Then press the digit for the corresponding voice message (1=A, 8=H) You will hear a short beep. Now speak clearly into the telephone. • 0 ends the recording
Play alarm location voice message	<p>4</p> <ul style="list-style-type: none"> • Then press 0 for the location voice message • 0 ends playback
Record alarm location voice message	<p>*4</p> <ul style="list-style-type: none"> • Then press 0 for the location voice message You will hear a short beep. Now speak clearly into the telephone. • 0 ends the recording
Play restore voice messages A–H (1–8)	<p>5</p> <ul style="list-style-type: none"> • Then press the digit for the corresponding voice message (1=A, 8=H) • 0 ends playback

<p>Record restore voice messages A–H (1–8)</p>	<p>*5</p> <ul style="list-style-type: none"> Then press the digit for the corresponding voice message (1=A, 8=H) You will hear a short beep. Now speak clearly into the telephone. 0 ends the recording
<p>Enter contact telephone numbers 1–10</p>	<p>*7</p> <ul style="list-style-type: none"> Then press the digit for the corresponding number of the contact (1=1.0=10) Enter the corresponding telephone number, followed by #. Enter the telephone number a second time to confirm, also followed by #. <p>Note: If the two inputs are the same, you hear a high confirmation beep. If the two inputs are not the same, you hear a low error beep.</p> <p>Example: Telephone number 1234567 for contact 3 *73 1234567# 1234567#</p>
<p>Test of sending of the voice alarm messages A–H or the text alarm messages A–H Calls are placed after remote access mode ends</p>	<p>*8</p> <ul style="list-style-type: none"> Then press the digit for the corresponding message (1=A, 8=H) The device ends remote access mode and calls all programmed numbers of this alarm message (contact type voice) or sends an SMS alarm message to all programmed numbers (contact type text).

Restore voice messages Restore text messages	Sending of these messages cannot be tested in remote access mode. Use the "Test Messages" option on the device to do this.
Play memo	0 <ul style="list-style-type: none"> Pressing 0 again ends playback
Record memo	*0 <ul style="list-style-type: none"> You will hear a short beep. Now speak clearly into the telephone. 0 ends the recording Pressing 0 again plays the recording
End remote access mode and hang up	#

14. Appendix

14.1 Overview of programming functions

f means factory setting
 E means example

Contact Details			
1			
	Name Contact 01 Name 01 ^f		
		Contact 01 TEL.	
			Message 01 Type Voice Text
	Name Contact 02		
	...		
	Name Contact 10		
Messages			
2 abc			
	Voice Memo		
		Voice Alarm A	Playback Recording
		...	
		Voice Alarm H	
		Voice Restore A	
		...	
		Voice Restore H	
		Voice Location	
	Text Message		
		Text Alarm A	Alarm A ^f
		...	
		Text Alarm H	
		Text Alarm A	Restore A ^f
		...	
		Text Restore H	
		Text Location	
	Inbox		
		View Messages	
		Delete Inbox	
System Options			

3 def			
	Trigger Polarity		
		Negative ^f (0V)	
		Positive (+10.5 V to +24 V)	
	Remote Options		
		Remote Access	OFF ^f ON
		Rings to Answer	Answer After 05 ^f Rings
		1 Ring Answer	OFF ^f ON
	Display Options		
		Flash On Message	ON ^f OFF
		Beep On Message	OFF ^f ON
		Temperature Display	ON ^f OFF
		Phone Line Fault	Display Off Display On Display and Beep
	Alarm limitations		
		Temperature High	40°C ^f (0°C to 50°C)
		Temperature Low	5°C ^f (0°C to 50°C)
		Supply Low	10V ^f (8V to 24V)
		Signal Low	3 ^f (1 to 7)
	Record Options		
		Long Play	OFF ^f ON
		Automatic Recording	OFF ^f ON
	Report Options		
		Auto Report	OFF ^f ON
		Report Time	Report Time 12:00 Hours ^f
			Report Day Mo ^f (So,Mo,Tu,We,Th,Fr,Sa,daily)
			Report Interval 01Weeks ^f (01–12)
		Mobile Omit [PB3] 1st Digit	OFF ^f ON
	Change Language?	Deutsch	
		Français	

		Nederlands	
		Dansk	
		Italiano	
		Polish	
		English	
	Summer/Winter Time		
		ON ^f OFF	
Access Codes			
4 _{ghi}			
	Change Passcode	New Passcode? ****	
	Change Remote Code	New Remote Code? ****	
Ack & Abort			
5 _{jkl}			
	Abort options		
		None ^f	
		Passcode Only	
		Code or Restore	
		Restore Only	
	Ack (acknowledge)		
		Anyone ^f	
		No One	
Outputs			
6 _{mno}			
	Output 1		
		OFF ^f	
			Output Polarity Negative ^f Positive
		Message Waiting	See OFF
		Remote Access	See OFF
		High Temperature	See OFF
		Low Temperature	See OFF
		Listen Active	See OFF
		Speech Active	See OFF
		Phone Line Fault	See OFF
		Cellular In Use	See OFF
		Call Active	See OFF

		Call Successful	See OFF
		Call Failed	See OFF
		Remote Control 1	See OFF
		Remote Control 2	See OFF
		Remote Control 3	See OFF
		Remote Control 4	See OFF
		Supply Low	See OFF
		Signal Low	See OFF
	Output 2		
		See Output 1	
	Output 3		
		See Output 1	
	Output 4		
		See Output 1	
Call Routing			
7 pars			
	Trigger Alarm		
		Route Alarm A To 1234567890 ^f	
		...	
		Route Alarm A To 1234567890 ^f	
	Trigger Restore		
		Route Restore A To ***** ^f	
		...	
		Route Restore H To ***** ^f	
	Auto Report		
		Auto Report To 1***** ^f	
	Text Forward		
		Route Text Forward To ***** ^f	
Date & Time			
8 tuv			
	Enter New Date 01/01/13 ^f		
		Enter New Time 00:00 ^f	
View Log			
9 wxyz			
	001>00:00:00 01Jan13		

	Sys Restart		
Test Options			
			
	Test Messages		
		Route Alarm A To ***** f	
		...	
		Route Alarm H To ***** f	
		Route Restore A To ***** f	
		...	
		Route Restore H To ***** f	
	Test Outputs		
		Test Outputs */*/*/*	<i>Press keys 1–4 to activate the outputs</i>
	Test Triggers	Test Triggers */*/*/*/*/*/*/*	<i>Trigger inputs for testing purposes</i>
	Test Supply	Test Supply 12.3V ^E	
	Mobile Phone Utils		
		Make Call	Call Tel Number>
		Signal Strength	Signal Strength Lo ●●● Hi
		Mobile Number	Mobile Number 0123 4567890 ^E
		IMEI Number	012589009726645 ^E
		IMSI Number	262032731563911 ^E
		Module Type	Enabler-III G Modem ^E
		Call Provider	blau.de ^E
	Software Version		
		Version 3.13 Dec 19 2012 08:50:10 ^E	

14.2 Technical data

Dimensions	150 mm x 115 mm x 30 mm (Width x height x depth)
Weight	Approx. 345 g
Operating temperature	-10 °C to 55 °C with an average relative humidity of approx. 75%, no condensation
Protection class	IP 10
Security level	2 EN50131-1
Environmental class	II
Power supply	10.5 x 24 V DC (max. 28 V)
Power consumption	50 mA @ 12 V DC (standby) 170 mA @ 12 V DC (during active operation)
Inputs	8 Negative (0 V) or positive (+10.5 V to +24 V) Controllable and disconnectable
Outputs	4 Negative switching transistor outputs (open collector) Capable of carrying up to 100 mA (-ve @ 100 mA)
Length of a voice message	Max. 30 s
Length of individual text messages	Max. 40 characters
Passcode	4-digit (factory setting: 1234)
Remote code	4-digit (factory setting: 5678)
Temperature display	in °C
SIM card format	Micro SIM (3FF) 1,8V / 3,0V, 15 x 12 mm
Antenna connection	Type MMCX Connector on the cable Socket on the mainboard
Cable length of antenna	Approx. 3 m
Antenna cable	Type RG174U

14.3 Customer service and support

End consumer

Please consult your dealer or installer if you have any questions.

Dealer/installer

In case of questions, please contact the appropriate support hotline.

Consult our website for product information.

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