



«eAccess» instruction manual: card programming

Dear Customer

Thank you for your interest in our eAccess product range.

To make optimal use of your Glutz eAccess system, please read the instruction manual carefully.

If you have any questions, please contact the specialist retailer or the manufacturer directly.

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1 General information

1.1 Target users

This document is intended for persons who are:

- ▶ Installing and commissioning the system (fitters, specialists, door technicians, etc.)
- ▶ Maintaining and managing the system (owners, administrators, company technicians, etc.)

1.2 Intended use

Your Glutz eAccess system is a locking system and should only be used for the application intended by the manufacturer: the locking and unlocking of doors/gates. No other use is intended beyond that specified.

The Glutz eAccess system has been designed for specific areas of application (permissible environmental conditions are described in section 2.2 Technical Data).



NOTE

Battery mode

Glutz identification devices are battery operated. Failure may occur if battery warnings are not observed. Various configuration settings can be used to optimise battery life.

1.3 Installation instructions



TIP

Device installation

The devices should be installed by a qualified specialist. Installation instructions are supplied with the product.

1.4 Hazard Warnings

Personal risk



WARNING

Potential immediate danger

Indicates a potential danger that could result in serious injury or death.

General information



CAUTION

Potential danger

Indicates a potential danger that could lead to light injury.

Material risk



NOTE

Product damage

Indicates a situation where non-compliance could damage the device or the functioning of the device.



TIP

Tip

Instructions that will help you to get optimal use from the device and to improve the device's performance. Tips and tricks for daily use.

1.5 Disposal



Batteries and electronics should not be placed in household waste and are therefore labelled with this symbol. Consumers are legally obliged to return used batteries. Old batteries can be handed in at public collection points or retail outlets or sent directly to Glutz:

Glutz AG | Segetzstrasse 13 | CH-4500 Solothurn

2 System overview

2.1 Glutz «eAccess»

The new wireless «eAccess» system from swiss technology leader Glutz guarantees barrier-free living and working.

As a virtually unrestricted, scalable and comprehensive solution, the system can be adapted seamlessly to meet all your needs and fit any structural conditions: simple, convenient and secure.

«eAccess» enables easy access management in just a few steps. Access for tradespeople, cleaning companies etc., can be controlled easily and securely.

Every door can be fitted with the robust Glutz system. «eAccess» consists of proven mechanical components that are uncompromising in enduring security. Sophisticated technologies like wireless and RFID (Radio Frequency Identification) facilitate easy programming and daily use of this access solution.



System overview

2.2 Technical data

Glutz eAccess	
Number of systems	8,000,000
Number of access points	100,000 per system
Communication	Wireless 868 Mhz
RFID technology	Mifare DESFire EV1/2, 13.56 MHz

Identification devices	
RFID media	Mifare DESFire EV1/2 and ISO 14443-A (UID)
Number of access authorisations	3,000 to 15,000 dynamic
Log data	Min. 3,000 entries (ID media, date, time, event)
Operating modes	FACTORY, SINGLE
Programming	Cards or software
Communication	Data exchange takes place wirelessly (868 MHz) or via a cable
Encryption	3DES/AES
Battery life	50,000 cycles or up to 3 years in standby at room temperature, with lithium batteries
Protection classes (E-fittings)	<ul style="list-style-type: none">▶ Outside: Steel, ES1, ES3▶ Inside: Steel
Temperature	-20°C to +70°C; lithium batteries must be used below 0°C.
Rooms	Do not use in rooms where there is a risk of explosion

System overview

2.3 Identification media

Clips can be used in addition to the practical access cards. All electronic identification media use RFID and are based on the DESFire Standard.

G-Line card	Specification
-------------	---------------



- ▶ Mifare DESFire EV1/2 4 kB, 13.56 MHz
- ▶ Third-party applications are supported
- ▶ Credit card format, 86 x 54 mm
- ▶ Design: G-Line or C-Line (customer-specific)

G-Line clip	Specification
-------------	---------------



- ▶ Mifare DESFire EV1/2 4 kB, 13.56 MHz
- ▶ Third-party applications are supported
- ▶ 55 x 32 x 7 mm, black and white
- ▶ G-Line design
- ▶ Waterproof to 3 metres

Code	Specification
------	---------------



- ▶ E-reader with code input
- ▶ Code length can be configured from 2 to 8 digits or remain dynamic

mAccess key	Specification
-------------	---------------



- ▶ Mechanical key with design bow and RFID

System overview

2.4 Identifiers

Different identifiers (ID) are required in the «eAccess» system for different purposes. The number of decimal places used in the identifier issued enables you to recognise what kind of identifier it is:

- ▶ 8 decimal places: system ID
- ▶ 9 decimal places: device ID
- ▶ 10 decimal places: media ID

System ID

The system ID allows a system to be clearly identified throughout Glutz. It is used in communication with Glutz Support and also as part of the procedure for ordering a subsequent system card.

Media ID

The user media and plus and minus cards sold by Glutz are marked with a media ID. The user medium can be clearly identified via this 10-digit identifier. Knowing the ID allows the media to be deleted from the device without physical access. User media produced by third-party manufacturers do not have a Glutz Media ID.

Device ID

The device can be clearly identified via the device ID. Each device has a unique device ID. It is used for the specific identification of that device.

UID Media

Third-party media can also be used on the eAccess system (e.g. media for drink vending machines, etc.). Using UID media is less secure when compared to the Glutz system standard. In order to use UID media, the devices must be activated individually. For security reasons, the device standard for UID media is deactivated.

Categories		Sample identifier
Programming cards	System cards	System ID: 1234.5678
	Plus/minus cards	123.456.789.0
	Number cards	-
	Function card for pairing	123.456.789.0
User media	G-Line card G-Line clip mAccess key	123.456.789.0

System overview

2.5 Pairing

Wireless from the E-reader to the E-fitting/E-cylinder

If required, the E-reader can communicate wirelessly with the E-fitting/E-cylinder.

Example:

An E-reader next to the door can be paired with the E-fitting/E-cylinder. This means that access can be granted using a code if the user media has been forgotten.



Wireless from the E-reader to the I/O module

Communication between the external reader and the I/O module in a protected area is wireless (optionally also via cable).



2.6 Programming media

Cards

Using the cards enables programming to take place without using a PC. This is particularly suitable for clearly structured applications with only a few users. Various programming cards are available.

System overview


2.7 Operating modes

Different operating modes are supported on the identification devices that can be programmed quite easily using cards. The following graphic gives an overview of the different operating modes and the possible crossovers between them.



→ Operating mode crossovers

FACTORY operating mode

Symbol	Specification
	All identification devices are supplied in FACTORY operating mode. No authorisations can be configured in this mode. This mode focusses on installation. In FACTORY operating mode, access can be gained using any readable RFID media (excluding system cards) or with an optional code. Each time the door opens, a signal is given to the user that they are using a non-secure mode as the orange LED lights up instead of the green LED. No special card set is required.




NOTE

Access control

This operating mode does not offer any protection against unwanted access and should therefore be replaced with a secure operating mode as soon as possible.

SINGLE operating mode

Symbol	Specification
	The SINGLE operating mode allows easy recording and handling of media in an individual system. All identification media must be recorded on all devices. All authorisations are stored on the E-devices.


System overview

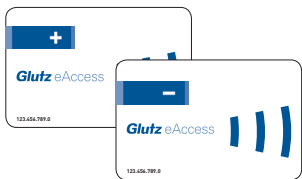
2.8 Programming cards

Using the RFID cards enables programming to take place without using a PC. This is particularly suitable for clearly structured applications with only a few users.

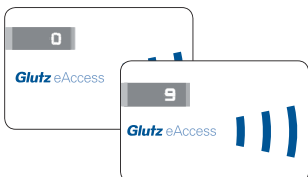
Various programming cards are available.

System cards

SINGLE system card	Sample identifier: System ID: 1234.5678
	<ul style="list-style-type: none">▶ System initialisation (and reset)▶ Configuration of the +/- cards▶ Change of operating mode▶ Device configuration



SINGLE plus/minus cards	Sample identifier: Media ID: 123.456.789.0
	<p>Plus card</p> <ul style="list-style-type: none">▶ Adding identification media▶ Activating functions <p>Minus card</p> <ul style="list-style-type: none">▶ Removing identification media▶ Deactivating functions

Number cards

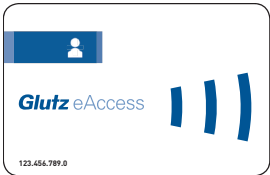


0 – 9	No identifier
	<p>Cards 0...9</p> <ul style="list-style-type: none">▶ Removing identification media▶ Setting configurations

System overview

Function cards

Freepass card	No identifier
	Freepass <ul style="list-style-type: none">▶ Activation and deactivation of the Freepass function
Pairing card	Sample identifier: 123.456.789.0
	Pairing <ul style="list-style-type: none">▶ Pairing of two devices

2.9 User media

G-Line card	Sample identifier: 123.456.789.0
	User card <ul style="list-style-type: none">▶ Access card, according to authorisation
G-Line clip	Sample identifier: 123.456.789.0
	User clip <ul style="list-style-type: none">▶ Access clip as an alternative to a user card▶ Access according to authorisation
mAccess key	Sample identifier: 123.456.789.0
	User key <ul style="list-style-type: none">▶ Mechanical key with design bow and RFID

3 Commissioning in SINGLE operating mode

3.1 Prerequisites

- ▶ The devices are already installed and connected to the mains or the batteries are inserted.
- ▶ The devices have been tested during installation (signal given when batteries are inserted) and are ready to use in FACTORY operating mode.
- ▶ The SINGLE card set is complete and available on site.

3.2 Initialisation

Application

After the initial commissioning, the device is switched from FACTORY operating mode to SINGLE operating mode so that only authorised persons (end users) can gain access.

Description

The initialisation process switches the operating mode from FACTORY to SINGLE. The system is then in a secure mode. (The system can only be overwritten via a reset)

Card order:



3.3 Reset

Application

Should a reset be necessary, the device can easily put back into FACTORY operating mode.

Description

The reset puts everything back to FACTORY mode.
All recorded identification media are deleted.
The device reverts back to FACTORY operating mode.

Card order:



4 Operation

4.1 Prerequisites

- ▶ The devices are initialised and commissioned.
- ▶ The relevant card set for the operating mode is complete and available on site.

4.2 Adding user medium

Application

Users can only gain access once their medium is recognised by the locking system.

Description

By presenting the plus card, the device switches to programming mode and the user medium can be configured. If successful, the medium will be immediately authorised for access.

Card order:



TIP

Lost media

Note down the media ID so that it can be deleted if lost.

4.3 Adding multiple media

Application

Users can only gain access once their medium is recognised by the locking system. Multiple media can also be configured at the same time.

Description

By presenting the plus card, the device switches to programming mode and the user medium can be configured. To record multiple media, the plus card must be presented twice.

Present the media one after another, with a gap of no more than 10 seconds between each one otherwise the process will be aborted.

The process can be confirmed using the plus card.

Card order:



Operation



TIP

Completion step forgotten

If the process is not completed using the plus card, all the media recorded so far will stay on the device and the device will exit programming mode.

4.4 Deleting medium

Application

If a medium is no longer going to be used (e.g. an employee leaves, etc.), it can be deleted. This process deletes user media authorisations from a device.

Description

By presenting the minus card, the device switches to programming mode and the user medium can now be deleted. The removed medium is now blocked.

Card order:



Deleting multiple media

Application

If a multiple number of media are no longer going to be used (e.g. employees leave, etc.), they can be deleted. This process deletes user media authorisations from a device. Multiple media can be removed at the same time.

Description

By presenting the minus card, the device switches to programming mode and the user media can be deleted. To delete multiple media, the minus card must be presented twice. Present the media one after another, with a gap of no more than 10 seconds between each one otherwise the process will be aborted. The process should be confirmed using the minus card.

Card order:



Operation

4.5 Deleting a medium with media ID

Application

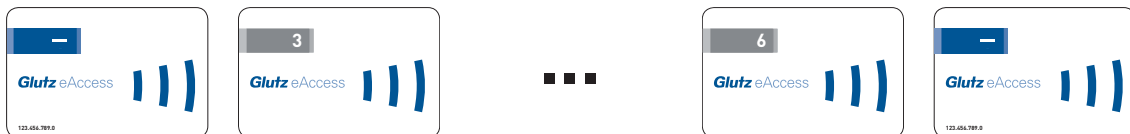
This process can be used if a medium is lost and needs to be deleted. The media ID is required for this. The medium can be deleted using the number cards.

Description

By presenting the minus card, the device switches to programming mode and the user medium can be deleted using its media ID.

Present the number cards one after another, with a gap of no more than 10 seconds between each one otherwise the process will be aborted. The process should be confirmed using the minus card.

Card order:



TIP

Complete input

All 10 digits of the media ID must be presented, including the zeros.

4.6 Adding a code

Application

If a code needs to be added to an E-reader, this can be done using a combination of cards and keys.

Description

By presenting the plus card, the device switches to programming mode and a new code can be added. After showing the plus card, enter the new code.

If a dynamic code length is used, it must be confirmed with the OK key.

Card/key order:



* only necessary if a dynamic code length has been programmed. For a fixed-length code (e.g. 4-digit), the confirmation is not necessary.

Operation

4.7 Deleting a code

Application

If a code needs to be deleted from an E-reader, this can be done using a combination of cards and keys.

Description

By presenting the minus card, the device switches to programming mode and the code can be deleted. After showing the minus card, enter the code to be deleted.

If a dynamic code length is used, it must be confirmed with the OK key.

Card/key order:



4.8 Delete all identification media

Application

If all identification media need to be deleted from a device, this can be done using the plus/minus cards. This process removes all identification media (RFID media, codes, etc.).

Description

By presenting the minus card, the device switches to programming mode. Present the plus card. This process must be confirmed using the minus card.

All identification media are now removed.

The device remains in SINGLE operating mode.

Card order:



CAUTION

Risk of lock out

If the system is in Single mode and all identification media are removed, the device remains in secure operation and there is a risk of being locked out. At least one identification media should always be left active or it must be ensured that the (*, +, -) cards are available.

Operation

4.9 Selective deletion

Various media, codes or functions can be deleted by presenting the system card and the relevant number cards.

Sample process card order:



Possible deletions

Action	Card order
Delete all UID media	*980*
Delete all RFID media	*981*
Delete all codes	*982*
Delete pairing	*991*
Restore factory settings (reset)	*999*

4.10 Switching on Freepass

Application

The activated Freepass (factory setting: Freepass deactivated) causes the status to switch between open and closed each time it is identified.

Example: when first identified, the door is opened and remains open until a recorded media is presented again.

Description

By presenting the plus card, the device switches to programming mode.

Present the Freepass card.

The Freepass is now activated.

Card order:



Operation

4.11 Switching off Freepass

Application

The activated Freepass (factory setting: Freepass deactivated) causes the status to switch between open and closed each time it is identified.

To deactivate again, the minus card is required.

Description

By presenting the minus card, the device switches to programming mode.
Present the Freepass card. The Freepass is now deactivated.

Card order:



4.12 Pairing

Application

The pairing function is used when two devices need to be linked, e.g. an E-fitting and an E-reader. One device is defined as the sender device and the other as the receiver device in order to establish communication. All of the identification media recognised by the sender device are automatically able to open the receiver device remotely.

Examples:

- ▶ Additional opening option (code) in the event that a user medium is forgotten
- ▶ Remote operation of entrance doors from the reception area

Description

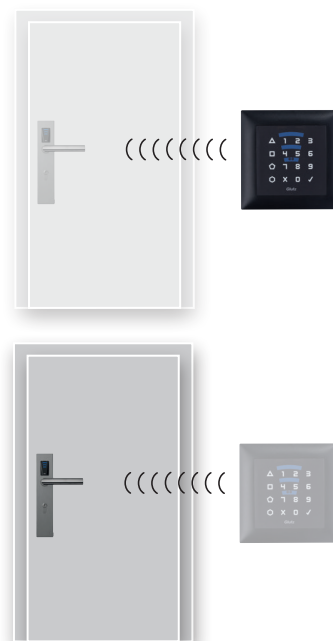
- ▶ Sender device: presentation of system card (*) and pairing card
- ▶ Receiver device: presentation of the pairing card

Both devices must be within wireless range or connected via a cable.

Sender device card order:



Receiver device card order:



Operation

4.13 Replacing lost or defective plus/minus cards

Application

If one of the plus/minus cards becomes lost or defective, a new set of plus/minus cards can be configured quite easily. Both or just one of the cards can be new. The cards previously configured on the device can then no longer be used on that device. All previously configured identification media still remain authorised.

Description

By presenting the system card (*), the new plus/minus cards can be configured.

Present the new card(s) required.

Confirm the new plus/minus card(s) using the system card.

Card order:



4.14 Replacing a lost or defective system card

Please contact Customer Service at Glutz AG.

5 Device configuration

5.1 Prerequisites

The devices are initialised and commissioned.

- ▶ The SINGLE card set is complete and available on site.
- ▶ The number cards are available on site.

Devices are configured in SINGLE operating mode using the plus cards and a 3-digit configuration number.

Sample process



TIP

Caution

The input can only be carried out using the number cards, not on the keypad of the E-reader!

5.2 Setting the unlocking time

An unlocking time sets the opening time of the E-fitting or the output of the E-reader.

Example:

If the time is set at three seconds (factory setting), the E-fitting remains open for three seconds after the user medium is presented and then locks automatically. The user is able to open the doors during this time.

Configuration	Card order
0 seconds/opening deactivated	+700+
1 second	+701+
3 seconds (factory setting)	+702+
5 seconds	+703+
10 seconds	+704+

5.3 Setting the unlocking time for remote opening

If the device is opened wirelessly (pairing), this is classed as remote opening. This time can be set.

Configuration	Card order
0 seconds/opening deactivated	+715+
1 second	+716+
3 seconds (factory setting)	+717+
5 seconds	+718+
10 seconds	+719+

Device configuration

5.4 Configuring the buzzer

The buzzer can be activated, deactivated or activated for special cases.

Example:

If the buzzer is permanently activated, it will sound for every identification, any programming and any error.

Configuration	Card order
Buzzer switched on	+730+
Buzzer completely deactivated	+731+
Buzzer switched on, except for successful identification	+732+

5.5 Configuring the LED

The brightness of the LEDs on the devices can be configured.

Example:

In a dark environment, it is not necessary to have the LEDs on full brightness as they are easily visible.

Configuration	Card order
LED off	+750+
LED minimal brightness	+751+
LED normal brightness	+752+
LED maximum brightness	+753+

5.6 UID Mode

This configuration allows you to set whether a device is able to work with UID media or not.

Example:

Only Glutz media should be authorised for a secure area, with UID media also being permitted for the remaining areas.

Configuration	Card order
UID mode on/off	+850+/-850-



NOTE

Reduced security

In UID mode, the transfer of RFID data is unencrypted.

Device configuration

5.7 Keypad: fixed code length

The code length for E-reader devices can be set with a maximum of 8 digits.

Example:

If the device is not set to have a fixed code length, the OK key must be pressed after the entering code.

Konfiguration	Kartenfolge
None, always confirm code with OK	+880+
maximum 2-digit codes	+882+
maximum 3-digit codes	+883+
maximum 4-digit codes	+884+
maximum 5-digit codes	+885+
maximum 6-digit codes	+886+
maximum 7-digit codes	+887+
maximum 8-digit codes	+888+



TIP

Maximum length

If the device is configured for codes with a maximum of 8 digits, this does not mean that 8-digit codes are mandatory; shorter, but not longer, codes can be programmed.

5.8 Battery type (security plate only)

For security fittings, automatic battery type recognition takes place when the device is started. This only works for lithium batteries when new batteries are inserted.

At the end of the start up signals, this will be indicated by a specific tone sequence. If this does not correspond with the respective battery type, it will have to be manually configured.

Battery type	Signal
Lithium batteries	'Smoke on the water'
Alkaline batteries	'Beethoven's Fifth'

Manual configuration	Card order
Lithium batteries	+891+
Alkaline batteries	+893+

6 Maintenance

6.1 Cleaning

The devices are made from stainless steel or brass and plastic. Clean the housings and lever handles with commercially available cleaning agents and soft cloths. Do not use any solvents.





NOTE

Plastic cover

Only clean the plastic cover on the exterior plate with a soft, damp cloth.

6.2 Replacing batteries

Batteries must be replaced when the warning 'Battery status critical' is given.

LED/colour	Buzzer	Application/function
or 3x or 	 3x	Batteries must be replaced urgently.



CAUTION

Lithium batteries

Do not charge, short-circuit, pierce, deform, dismantle, heat to over 85°C, burn or bring the battery into contact with water. Keep batteries away from small children. International standard IEC 60086-4 contains further information about the safety of lithium batteries.

Alkaline manganese batteries

Do not charge, short-circuit, pierce, deform, dismantle, heat to over 85°C, burn or bring the battery into contact with water. Keep batteries away from small children. International standard IEC 60086-5 contains further information about the safety of alkaline batteries.

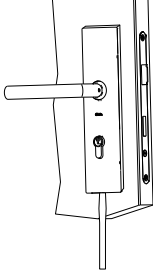
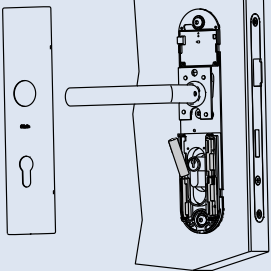
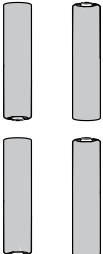
Handling and storage

- ▶ Prevent short-circuiting of the battery terminals.
- ▶ Preferably store in cool (under 30°C) and dry conditions, with no significant fluctuations in temperature.
- ▶ Do not store close to heating elements or expose to direct sunlight for a long period. High temperatures can shorten battery life.

Maintenance

E protection fittings

AAA batteries are used for E protection fittings. Alkaline batteries can be used for indoor applications. Lithium batteries can be used to achieve longer battery life and must be used for outdoor applications.

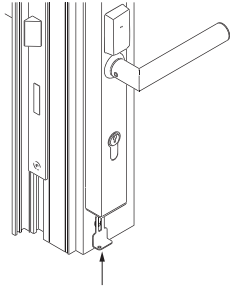
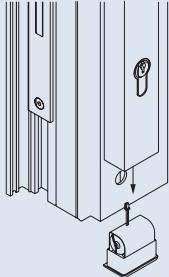
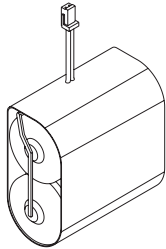
Image	Description
	<ul style="list-style-type: none">▶ Insert a screwdriver into the recess on the interior plate
	<ul style="list-style-type: none">▶ Lift off the interior plate▶ Use the screwdriver to replace the batteries
	<ul style="list-style-type: none">▶ Ensure the correct polarity when inserting the new batteries!▶ Clip the interior plate back in place

See page 27 for battery type recognition.

Maintenance

E organisation fittings

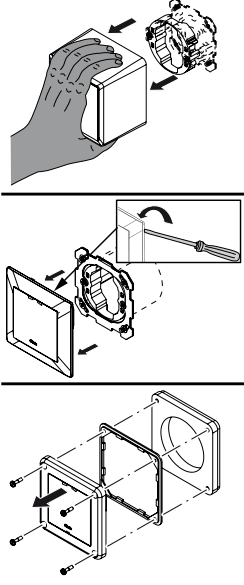
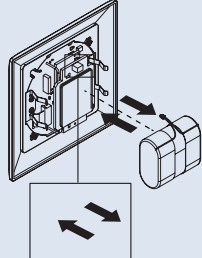
For E organisation fittings, only Glutz battery packs may be used.

Image	Description
	<ul style="list-style-type: none">▶ Insert the special tool into the bottom of the exterior plate
	<ul style="list-style-type: none">▶ Pull the battery holder downwards▶ Unplug the connector carefully!
	<ul style="list-style-type: none">▶ Replace the Glutz battery pack▶ Reconnect carefully▶ Re-insert the battery holder

Maintenance

E-reader (battery-operated)

For E-readers, only Glutz battery packs may be used.

Image	Description
	<ul style="list-style-type: none">▶ Remove the E-reader
	<ul style="list-style-type: none">▶ Unplug the connector carefully!▶ Replace the Glutz battery pack▶ Reconnect carefully▶ Re-fit the E-reader

Device reboot

Once the batteries have been changed, the device will reboot. This may take a few seconds. For software-controlled E-devices, it may also be necessary to check and/or reset the built-in real-time clock after a battery change. To do this, please follow the operating procedure in the eAccess software.

Maintenance




NOTE

Electrostatic discharge (ESD)

This product contains electronic components that are sensitive to electrostatic discharge (ESD). Contact with people or objects may result in an electrostatic discharge that could damage or destroy the product. To avoid an electrostatic discharge, the handling instructions and recommendations given in EN 61340-5-1 should be observed.

6.3 Emergency power supply

If the batteries in an E-fitting discharge completely, it is possible to open the door using an external power supply. An emergency power device is required for this.

Image	Description
	<ul style="list-style-type: none">▶ Connect the battery to the emergency power device▶ Insert the emergency power wire into the fitting (cable upside down)▶ Wait for the signal from the fitting (approx. 3 sec)▶ Present the authorised medium to the device (with an emergency power supply, the device will respond in exactly the same way as in normal operation)▶ Door opens▶ Remove the emergency power supply▶ Replace the batteries in the eAccess fitting▶ Always store the emergency power device without batteries

7 Troubleshooting

7.1 Error signals during normal operation

The signals given during normal operation are described in section 8.0.

7.2 Troubleshooting specific symptoms

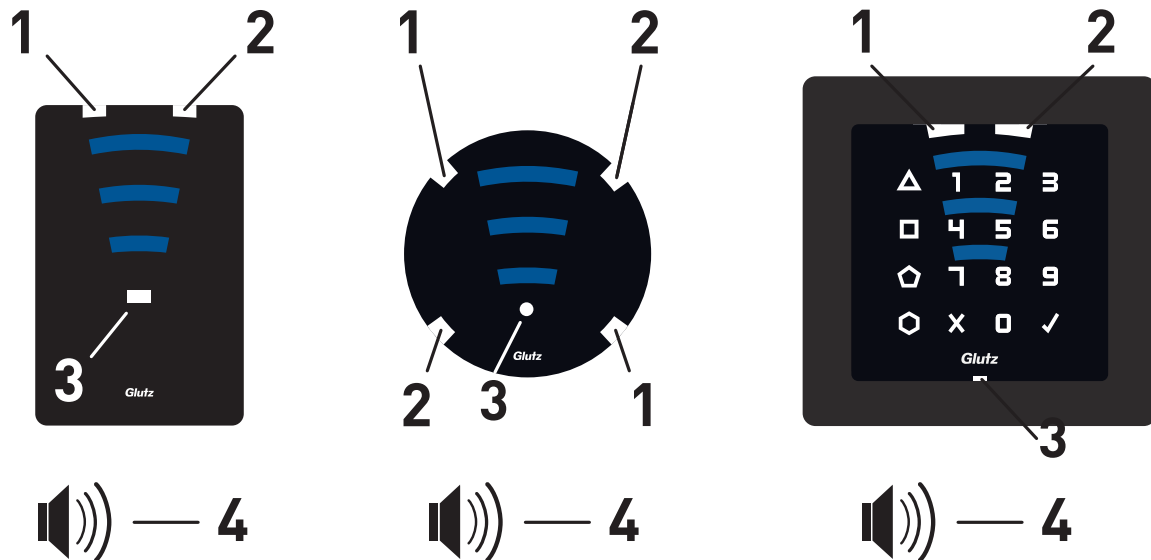
Symptom	Possible causes
Lock does not open	<ul style="list-style-type: none">▶ Medium is not authorised▶ Door is locked with the mechanical lock cylinder
Reader electronics do not respond	<ul style="list-style-type: none">▶ Medium does not have the same RFID technology▶ Batteries are dead
Programming does not work	<ul style="list-style-type: none">▶ Incorrect programming/deletion card▶ Function cards used in the incorrect order
Medium lost	<ul style="list-style-type: none">▶ If you know the media ID of the lost medium, you just need to use the minus card to delete the lost medium and then the plus card to reauthorise a new medium.▶ If you do not know the media ID of the lost medium, you need to delete all authorised media and then reauthorise accordingly.

8 Signals

8.1 Identification device signals

Glutz identification devices are fitted with three LEDs. These are used as a means of communication. Depending on which LEDs light up, in which colour and how often, the device is able to signal a particular application or function.

There is also a built-in buzzer that adds sound to back this up.


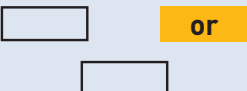





- 1. Left LED: red / green / orange
- 2. Right LED: red / green / orange

- 3. Lower LED: blue / white
- 4. Buzzer, acoustic signal

Signals

8.2 Typical examples of the LED colours

LED/colour	Description
	<ul style="list-style-type: none"> ▶ OK/success
	<ul style="list-style-type: none"> ▶ OK with warning, not secure
	<ul style="list-style-type: none"> ▶ Rejection/failed
	<ul style="list-style-type: none"> ▶ Programming mode/communication active
	<ul style="list-style-type: none"> ▶ Battery status critical

Legend:













gr = green

or = orange

bl = blue



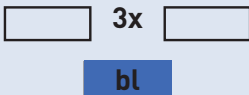

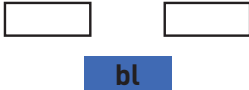





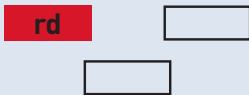

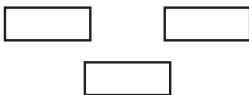

rd = red

8.3 Signals during normal operation

LED/colour	Buzzer	Description
		<ul style="list-style-type: none"> ▶ Batteries must be replaced urgently
		<ul style="list-style-type: none"> ▶ Successful identification
		<ul style="list-style-type: none"> ▶ Rejection – the medium could not be read or is not authorised
		<ul style="list-style-type: none"> ▶ Defective medium/fully charged medium
		<ul style="list-style-type: none"> ▶ Defective device/full device
		<ul style="list-style-type: none"> ▶ Successful identification ▶ E-device will now remain open
		<ul style="list-style-type: none"> ▶ Successful identification ▶ E-device will now remain closed

Signals

8.4 Signals during card programming

LED/colour	Buzzer	Description
		<ul style="list-style-type: none"> ▶ Not authorised ▶ UID mode not activated ▶ Software programming mode
		<ul style="list-style-type: none"> ▶ Entering programming mode
		<ul style="list-style-type: none"> ▶ The blue LED flashes whilst programming mode is active
		<ul style="list-style-type: none"> ▶ Process not yet completed (e.g. input using number cards)
		<ul style="list-style-type: none"> ▶ Process successfully completed ▶ If the process continues for longer than 200 ms after the last card, both of the upper LEDs will intermittently flash orange (frequency approx. 2 Hz) before the green LED appears
		<ul style="list-style-type: none"> ▶ Process not successfully completed ▶ If the process continues for longer than 200 ms after the last card, both of the upper LEDs will intermittently flash orange (frequency approx. 2 Hz) before the green LED appears
		<ul style="list-style-type: none"> ▶ Programming mode exited (process completed)

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