Operating Instructions

TC-gateway
1290 00

GIRA

Table of contents

Operation

Application examples

The following symbols are used in these instructions:

1. Action instructions are numbered consecutively.

✓ Results of actions are identified by this check mark.

In addition, the instructions for action are shown in the left-hand column with symbols:

Symbol	Meaning
☏ ☏	Pick up receiver/hang up receiver
🔊	You hear a signal on the telephone, e.g. the exchange tone or the command tone of the TC-gateway.
⁎	Press the function key shown, e.g. here the "star" on your telephone
▦	Enter a number combination via the telephone keypad, e.g. your PIN.
3	Press the number key shown, e.g. here the "3" on your telephone.
R	Press the R key on your telephone (also see Page 7).

The TC-gateway is the connection between the Gira door communication system and the telephone connection. The TC-gateway is attached either to an analogue telephone connection (exchange a/b) or the analogue extension station of a telephone system.

In the main function, door station calls are forwarded to the devices of the TC-gateway. After accepting a call, voice and switching functions of the door communication system can be used. In the opposite direction, the TC-gateway can be called by telephone. After acceptance of the call by the TC-gateway, a voice connection to the door stations can be established. In addition, switching functions or operating procedures for configuration of the TC-gateway can be carried out.

Telephoning

All telephone functions (accepting or conducting outside calls) can be used with the TC-gateway without dialling special prefixes.

Comfort features, such as the display of the caller's number (CLIP), alternating between lines or the operation of an external answering machine (e.g. T-NetBox), are supported.

DTMF, R key, flash times

DTMF (Dual Tone Multi Frequency), also called tone dialling or DTMF (dual-tone multifrequency signalling), is used for dialling in telephone equipment. The DTMF signal consists of tones generated by the telephone keypad. The Gira TC-gateway is operated with DTMF tones.

Depending on the manufacturer, the **R key** is referred to as the internal refer-back or signal key, and in some cases also as the flash key or hook flash. Please refer to the operating instructions of your telephone to determine which key on your telephone is the R key.

The TC-gateway detects **flash times** of 80 - 250 ms. A flash of 200 ms is generated by the TC-gateway.

The TC-gateway is a DIN rail-mounted device with six modules and is mounted in the distribution on a top-hat rail.

"Betrieb" ("Operation") LED

The green "Betrieb" ("Operation") LED signals the following functions:

- LED lights up: Fault-free operating mode
- LED flashes: Programming mode of door communication system active

"TLN aktiv" ("DCS active") LED

The yellow "TLN aktiv" ("DCS active") LED lights up when a conversation is conducted via the telephone connected to the TLN a'/b' (DCS a'/b').

The TC-gateway is equipped with the following connections (also see illustration of device on Page 8):

BUS

The bus line from the Gira door communication system is connected here.

U_b

Input for the supply voltage (12-24 V DC or 12 V AC). The power supply is provided either via

- a door-communication control device (12 V AC),
- the power supply for door communication (24 V DC)
- or a common bell transformer.

Amt a/b (Exchange a/b)

The analogue telephone connection or the analogue output of a telephone system is connected to these terminals.

TLN a'/b' (DCS a'/b')

An analogue telephone (with DTMF) is connected to this connection.

Use on analogue telephone connection

Information on operation on analogue telephone connection

With use on an analogue telephone connection, an analogue telephone is connected to the "TLN" ("DCS") port. All door calls are forwarded to the connected telephone. It is also possible for forward door calls to an external telephone number. A conversation can then be held with the person at the door station via the external telephone, and, if necessary, the door can be opened.

Use on a telephone system

TK-Gateway

U_b Amt a / b TLN a´ / b´ BUS

Steuergerät

BUS 12 V~

Türstation

230 V AC

Telefonanlage

Telefonanschluss

Türöffner

ℹ️ **Enter number of extension telephones**

The numbers of the telephones which are to signal a door call must be entered in the telephone book of the TC-gateway.

When operating the Gira TC-gateway on the analogue extension telephone of a telephone system, the range of features and the behaviour of the individual devices depend on the telephone system. For this reason, only general information on the operation of the TC-gateway on a telephone system can be provided here:

Do not connect a telephone to TLN a'/b' (DCS a'/b')

When operating the TC-gateway on a telephone system, no telephone may be connected to the terminals TLN a'/b' (DCS a'/b').
In extension operation, all door calls are forwarded via the exchange terminal of the TC-gateway to the telephone system and then distributed to the connected telephones from there.

Setting up collective call

So that all telephones ring at the same time in case of a door call, you must enter the number of the collective call in the telephone book of the TC-gateway (or a master redirection number). The collective call number is provided in the operating instructions of your telephone system.

Commissioning and operation

To commission and operate the TC-gateway, you must "call" the TC-gateway. The condition is that the TC-gateway is in the "extension connection" setting.
Dial the number of the telephone system connection to which the TC-gateway is connected. After the TC-gateway has accepted the call, you hear the command tone of the TC-gateway. You can now continue with the corresponding operating steps.

All settings and operating procedures can be carried out via a DTMF-capable telephone connected to the TC-gateway or the telephone system.

For the TC-gateway to evaluate the respective DTMF codes, it must be switched into either the Command mode or the Programming mode.

Command mode

In the Command mode DTMF codes can be entered for operation, e.g. for switching over the variants.

The Command mode is started as follows:

- Following a door call: Pick up receiver
- From the idle state (telephone connection to TLN a'/b' (DCS a'/b')):
  Pick up receiver and press the R key within 5 seconds.
- From the idle state (connection to a telephone system):
  Calling from an extension connection

You recognise the active Command mode from the command tone (see table on Page 15).

Programming mode

Before carrying out commissioning steps, the Programming mode must be started on the TC-gateway.

You start the Programming mode by entering the following DTMF code in the active Command mode:

$$* 0 * PIN \#$$

You recognise the active Programming mode from the Programming mode signal (see table on Page 15).

If several commissioning steps are to be carried out consecutively, the Programming mode need only be started once. The TC-gateway remains in the Programming mode until the telephone receiver is hung up.

Signal and acknowledgement tones

The TC-gateway signals its respective state with various tones:

Symbol	Sound	Meaning
	Exchange tone	Normal exchange tone on picking up the telephone connected to the TLN (DCS) terminals.
	Command tone	Command mode active; the TC-gateway waits for an entry
	Programming mode signal	Programming mode active; the TC-gateway waits for an entry
	Continuous acknowledgement tone	Acknowledgement tone: Previous action successful
	Pulsing acknowledgement tone	Acknowledgement tone: Previous action has failed

Commissioning via programming set

With the programming set available as an option, the TC-gateway can be conveniently set up and configured. Details are provided in the operating instructions included with the programming set.
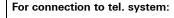
Basic commissioning procedure

Please proceed in the following order to commission the Gira door communication system:

1. Install all devices of the Gira door communication system.
2. Assign the door-station call button(s) to the home station(s) (see instructions for control device).
3. Program the door opener function(s) (see instructions for control device).
4. Program the switching actuator (see instructions for switching actuator).
5. Make the setting "Exchange connection"/"Extension connection" on the TC-gateway (see Page 17).
6. Assign the door-station call button(s) to the TC-gateway (see Page 18).
7. Program the switching actuator function (see Page 21).
8. Enter the telephone numbers in the telephone book if necessary (see Page 23).
9. Change the settings of the call and conversation times if necessary (see Page 27 ff.).
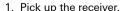
Commissioning - setting exchange/extension connection

Factory setting: Extension connection

		For connection to TLN (DCS):	**For connection to tel. system:**
📞		1. Pick up the receiver.	1. Pick up the receiver.
🔊		✓ You hear the exchange tone.	✓ You hear the internal dial tone of your telephone system.
R	▦	2. Press the R key.	2. Dial the TC-gateway.

🔊 ✓ You hear the command tone of the TC-gateway.

[*] [0] 3. Press the "star" key and enter the code number "0".

[*] [▦] [#] 4. Press the "star" key, enter your PIN and confirm with the "hash" key.

🔊 ✓ You hear the Programming mode signal.

Switching between exchange/extension connection

[*] [3] 5. Press the "star" key and enter the code number "3".

[*] [▦] 6. Press the "star" key and enter the code number for the type of connection:
0 = Exchange connection
1 = Extension connection of telephone system (factory system)

[#] 7. Press the "hash" key.

🔊 ✓ You hear an acknowledgement tone, then the Programming mode signal.

When assigning the call buttons, the door stations and the individual call buttons must be assigned unique numbers.

These numbers can be assigned as desired. The door stations can be given the numbers 1 - 9, and the call buttons the index numbers 01 - 50. It is advisable to begin numbering with 1 and then count upward for the door stations and call buttons.

For commissioning documentation, please use the table on Page 48.

Example:

Call Button/ Name	Door Station	Index		
Top/3rd floor	1	01		
Middle/2nd floor	1	02		
Bottom/1st floor	1	03		
Top/3rd floor	2	04		
Middle/2nd floor	2	05		
Bottom/1st floor	2	06		
	...	...		
	9	50		

Door station 1 e.g. main door

Door station 2 e.g. side door

Starting Programming mode of door communication system

3 s Systemprogr.

1. Start the Programming mode at the **control device** by pressing the "System pogr. " button for 3 seconds until the LED next to the button starts flashing.

3 s M. Meier

2. Press the call buttons at the **door station** for 3 seconds each until you hear a short acknowledgement tone. **Important:** Press the call buttons in the sequence in which the telephone number entries will be assigned later.

🔊 ✓ You will hear a long acknowledgement tone at the door station.

> **ℹ️ Release call button after 3 seconds**
>
> If the button press is not ended after the first acknowledgement tone, all assignments of the respective door/home station will be deleted after an additional 3 seconds.

Starting Programming mode on TC-gateway

For connection to TLN (DCS):	For connection to tel. system:
↑ 1. Pick up the receiver.	1. Pick up the receiver.
🔊 ✓ You hear the exchange tone.	✓ You hear the internal dial tone of your telephone system.
R 🔢 2. Press the R key.	2. Dial the TC-gateway.

🔊 ✓ You hear the command tone of the TC-gateway.

⭐ 0 3. Press the "star" key and enter the code number "0".

4. Press the "star" key, enter your PIN and confirm with the "hash" key.

✓ You hear an acknowledgement tone, then the Programming mode signal.
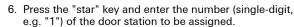
Assigning call button

5. Press the "star" key and enter the code number "2".

6. Press the "star" key and enter the number (single-digit, e.g. "1") of the door station to be assigned.

7. Press the "star" key, enter the index number (two-digit, e.g. "01") and press "hash" to end the programming step.
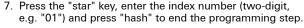
✓ You hear an acknowledgement tone, then the Programming mode signal.

To assign additional call buttons if necessary, please repeat the work steps 5 to 9.

8. Briefly press the "System progr." button on the **control device** to end the Programming mode.

9. Carry out additional commissioning steps or end the Programming mode by hanging up the telephone receiver.

Commissioning - assigning switching actuator function

You can control switching actuator functions by telephone. For this purpose, the switching function is assigned to a telephone key.

> ℹ️ **Number of switching actuators**
>
> The number of switching actuators that can be controlled by telephone is dependent on the number of door stations. The total number of all door stations and switching actuators may not exceed 9. Example: If 2 door stations are installed, up to 7 switching actuators can be assigned.

3 s 🔆 Systemprogr.

1. Start Programming mode at the **control device** by pressing the "System progr." button for 3 seconds until the LED next to the button starts flashing.

✓ The last operating mode LED set flashes on the **switching actuator**.

🔆 Funktion

2. Press the "Function" button on the **switching actuator** several times until the LED of the desired operating mode flashes.

3 s 🔆 Progr.

3. Press the "Progr." button at the **switching actuator** for 3 seconds until the LED next to the button flashes.

For connection to TLN (DCS):	**For connection to tel. system:**
4. Pick up the receiver.	4. Pick up the receiver.
✓ You hear the exchange tone.	✓ You hear the internal dial tone of your telephone system.
5. Press the R key.	5. Dial the TC-gateway.

✓ You hear the command tone of the TC-gateway.

6. Press the "hash" key.

7. Enter a number for the switching actuator (2-9) which is not yet assigned to a door station.

> **ⓘ Tip: Number assignment**
>
> Begin with "9" when assigning the switching actuator numbers. In this way you ensure (especially in larger systems) that you do not assign the same numbers for switching actuators and door stations.

✓ You hear an acknowledgement tone, followed by the command tone of the TC-gateway.

8. Briefly press the "System progr." button on the **control device** to end the Programming mode.

9. Carry out additional commissioning steps or end the Programming mode by hanging up the telephone receiver.

Telephone number variants

With the TC-gateway you can forward door calls to external telephone numbers. These telephone numbers must be entered in the so-called telephone book. Each call button can be assigned two telephone numbers (Variant 1/2). It is possible to switch between the two telephone numbers with the variant switchover (see Page 38).

Use the table on Page 48 to document your telephone numbers.

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i **Entry without telephone number**

If no telephone number is to be entered in a variant, press the "star", do not enter a number and proceed with the next work step.
If no telephone number is entered, the door call is automatically forwarded to the telephone on the TLN (DCS) connection.

Answering machine function

You can activate the answering machine function for each telephone number. This function enables the answering machine (with mobile phones, the mailbox) to be heard and recorded from the door station when a door call is not accepted.

With the answering machine function is activated, the behaviour of the TC-gateway changes as follows:

• Following a door call, it is possible to speak with the door station immediately after picking up the telephone receiver (without pressing a key).

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- The local call time and the external call time are not evaluated. Instead, the door conversation time begins immediately from the pressing of the call button.
- The signalling duration of the connected telephones is the same as the door conversation time.
- For the master call-forwarding number, the setting "delayed" is not possible.

Example:

Call Button/ Name	Door Station	Index	Tel. No. for Variant 1	Tel. No. for Variant 2
Major	1	01	017512564	

During the day, the door call is to be forwarded to a mobile phone. For this purpose, the mobile phone number is entered in Variant 1 and Variant 1 is selected during the day.

In the evening the telephone in the flat connected to TLN (DCS) is to ring. For this purpose, no number is entered in Variant 2 and Variant 2 is selected in the evening.

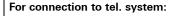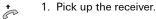The answering machine function is not to be activated.

DTMF code for the example:

Activate the Programming mode, then
* 1 * 01 * 017512564 * * 0 #

Start Programming mode

If the Programming mode is still active (Programming mode signal), you can begin with step 5.

For connection to TLN (DCS):	**For connection to tel. system:**
1. Pick up the receiver.	1. Pick up the receiver.
✓ You hear the exchange tone.	✓ You hear the internal dial tone of your telephone system.
2. Press the R key.	2. Dial the TC-gateway.

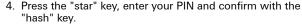✓ You hear the command tone of the TC-gateway.

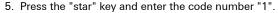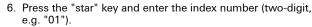3. Press the "star" key and enter the code number "0".

4. Press the "star" key, enter your PIN and confirm with the "hash" key.

✓ You hear an acknowledgement tone, then the Programming mode signal.

Enter telephone number

5. Press the "star" key and enter the code number "1".

6. Press the "star" key and enter the index number (two-digit, e.g. "01").

7. Press the "star" key and enter the first telephone number.

8. Press the "star" key and enter the second telephone number.

---

i **Entry without telephone number**

If no telephone number is to be entered in a variant, press the "star", do not enter a number and proceed with the next work step.

---

9. Press the "star" key and enter the code number for the answering machine function:
   0 = No answering machine (AM)
   1 = AM on telephone number 1
   2 = AM on telephone number 2
   3 = AM on telephone number 1 + 2

10. Press the "hash" key.

✓ You hear an acknowledgement tone, then the Programming mode signal.

11. Carry out additional commissioning steps or end the Programming mode by hanging up the telephone receiver.

Commissioning - setting local call time

The local call time (factory setting: 30 s, max 120 s) defines the signalling duration on the TLN (DCS) connection.
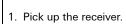
If the Programming mode is still active (Programming mode signal), you can begin with step 5.

For connection to TLN (DCS):	**For connection to tel. system:**
1. Pick up the receiver.	1. Pick up the receiver.
✓ You hear the exchange tone.	✓ You hear the internal dial tone of your telephone system.
2. Press the R key.	2. Dial the TC-gateway.

✓ You hear the command tone of the TC-gateway.

3. Press the "star" key and enter the code number "0".

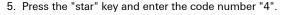4. Press the "star" key, enter your PIN and confirm with the "hash" key.

✓ You hear an acknowledgement tone, then the Programming mode signal.

Set local call time

5. Press the "star" key and enter the code number "4".

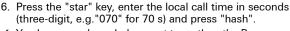6. Press the "star" key, enter the local call time in seconds (three-digit, e.g."070" for 70 s) and press "hash".

✓ You hear an acknowledgement tone, then the Programming mode signal.

7. Carry out additional commissioning steps or end the Programming mode by hanging up the telephone receiver.

Commissioning - setting external call time

The external call time (factory setting: 30 s, max 120 s) defines the signalling duration via the exchange connection.
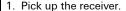
If the Programming mode is still active (Programming mode signal), you can begin with step 5.

For connection to TLN (DCS):	**For connection to tel. system:**
1. Pick up the receiver.	1. Pick up the receiver.
✓ You hear the exchange tone.	✓ You hear the internal dial tone of your telephone system.
2. Press the R key.	2. Dial the TC-gateway.

✓ You hear the command tone of the TC-gateway.

3. Press the "star" key and enter the code number "0".

4. Press the "star" key, enter your PIN and confirm with the "hash" key.

✓ You hear an acknowledgement tone, then the Programming mode signal.

Set external call time

5. Press the "star" key and enter the code number "5".

6. Press the "star" key, enter the external call time in seconds (three-digit, e.g."050" for 50 s) and press "hash".

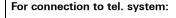✓ You hear an acknowledgement tone, then the Programming mode signal.

7. Carry out additional commissioning steps or end the Programming mode by hanging up the telephone receiver.

Commissioning - setting door conversation time

The door conversation time (factory setting: 60 s, max. 120 s) defines the maximum duration of a door conversation. When this time expires, the door conversation is automatically ended.
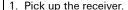
If the Programming mode is still active (Programming mode signal), you can begin with step 5.

For connection to TLN (DCS):	**For connection to tel. system:**
1. Pick up the receiver.	1. Pick up the receiver.
✓ You hear the exchange tone.	✓ You hear the internal dial tone of your telephone system.
2. Press the R key.	2. Dial the TC-gateway.

✓ You hear the command tone of the TC-gateway.

3. Press the "star" key and enter the code number "0".

4. Press the "star" key, enter your PIN and confirm with the "hash" key.

✓ You hear an acknowledgement tone, then the Programming mode signal.

Set door conversation time

5. Press the "star" key and enter the code number "6".

6. Press the "star" key, enter the conversation time in seconds (three-digit, e.g."090" for 90 s) and press "hash".

✓ You hear an acknowledgement tone, then the Programming mode signal.

7. Carry out additional commissioning steps or end the Programming mode by hanging up the telephone receiver.

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Factory setting for PIN: 0000

If the Programming mode is still active (Programming mode signal), you can begin with step 5.

	For connection to TLN (DCS):	**For connection to tel. system:**
📞	1. Pick up the receiver.	1. Pick up the receiver.
🔊	✓ You hear the exchange tone.	✓ You hear the internal dial tone of your telephone system.
R | ▦	2. Press the R key.	2. Dial the TC-gateway.

🔊 ✓ You hear the command tone of the TC-gateway.

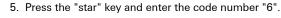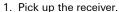⁕ 0 3. Press the "star" key and enter the code number "0".

⁕ ▦ # 4. Press the "star" key, enter your PIN and confirm with the "hash" key.

🔊 ✓ You hear an acknowledgement tone, then the Programming mode signal.

Change PIN

⁕ 9 5. Press the "star" key and enter the code number "9".

⁕ ▦ 6. Press the "star" key and enter the new four-digit PIN.

7. Press the "star", enter the new PIN again and press "hash".

⁕ ▦ # ✓ You hear an acknowledgement tone, then the Programming mode signal.

🔊 8. Carry out additional commissioning steps or end the Programming mode by hanging up the telephone receiver.

With the Reset function you can reset the TC-gateway to the delivered state.
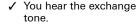
> ## ⚠️ **Important!**
>
> The Reset function resets all entries. All stored telephone numbers are deleted!

		For connection to TLN (DCS):	**For connection to tel. system:**
📞		1. Pick up the receiver.	1. Pick up the receiver.
🔊		✓ You hear the exchange tone.	✓ You hear the internal dial tone of your telephone system.
R	⊞	2. Press the R key.	2. Dial the TC-gateway.

🔊 ✓ You hear the command tone of the TC-gateway.

⊞* ⊞9   3. Press the "star" key and enter the code number "9".

⊞* ⊞   4. Press the "star" key and enter the reset code.
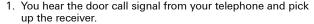Reset code: 19 28 37 46 55

⊞#   5. Press the "hash" key.

🔊 ✓ You hear the continuous acknowledgement tone as a sign that the entry has been successfully accepted.

Accept door conversation

1. You hear the door call signal from your telephone and pick up the receiver.

   ✓ You hear the command tone of the TC-gateway.

2. Press the "0" key and speak with the person at the door station.

3. To end the conversation, hang up the receiver.

> ℹ **Behaviour with answering machine function activated**
>
> If the answering machine function is active, it is possible, without pressing a key, to speak with the door station immediately after picking up the telephone receiver.

Call door station

For connection to TLN (DCS):	For connection to tel. system:
1. Pick up the receiver.	1. Pick up the receiver.
✓ You hear the exchange tone.	✓ You hear the internal dial tone of your telephone system.
2. Press the R key.	2. Dial the TC-gateway.

   ✓ You hear the command tone of the TC-gateway.

3. Press the number of the door station and speak with the person at the door station.

4. To end the conversation, hang up the receiver.

Open door following door conversation

To activate the door opener following a conversation with the door station:

1. Pick up the receiver and conduct a door conversation.

2. Press the "hash" key and enter the code number "0".

✓ You hear the acknowledgement tone.
   The door opener is controlled and the door can be opened.

3. Hang up the receiver.

$\boxed{\mathbf{i}}$ **Open door with several door stations**

If there are several door stations, entering "#0" activates the door opener for the door station from which the door call has been sent.
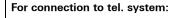
2 minutes after the door call or 30 seconds after the door conversation, the door opener of the "main" door is activated when "#0" is entered.

After this time expires, you can activate door openers on side doors by entering the number of the corresponding door station (e.g. "#1", "#2" etc.) instead of the "#0".
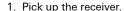
Open door without prior door conversation

You can activate the door opener spontaneously without conducting a door conversation beforehand. This is, for example, practical when you have already seen your visitor through the window.

For connection to TLN (DCS):	**For connection to tel. system:**
1. Pick up the receiver.	1. Pick up the receiver.
✓ You hear the exchange tone.	✓ You hear the internal dial tone of your telephone system.
2. Press the R key.	2. Dial the TC-gateway.

✓ You hear the command tone of the TC-gateway.

3. Press the "hash" key and enter the number of the door station.

✓ You hear an acknowledgement tone.
The door opener is controlled and the door can be opened.

4. Hang up the receiver.

Operation - alternating between lines

If someone rings at the door during a telephone call, this is signalled by a call waiting tone. In this case it is possible to switch from the exchange telephone call to the calling door station:

↑ ☎ ✓ You are conducting an exchange call and hear the call waiting tone in your telephone.

To interrupt the existing telephone call and switch to the person at the door station:

[R] 1. Press the R key.

◁)) ✓ You hear the command tone of the TC-gateway.

[0] 2. Press the "0" key and speak with the person at the door station.

[#] [0] 3. To open the door, press the "hash" key and enter the code number "0".

[R] 4. To return to the telephone call, press the R key again.
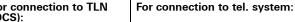
> **ℹ** **"Alternating between lines" function in Extension mode**
>
> When operating the TC-gateway on the exchange station of a telephone system, the "alternating between lines" function is dependent on the range of functions of the telephone system.

Operation - entering/changing/deleting master call-forwarding number

The master call-forwarding number is a telephone number on a higher level than the telephone book to which all door calls are forwarded in the activated state (see Page 37).

For connection to TLN (DCS):	**For connection to tel. system:**
1. Pick up the receiver.	1. Pick up the receiver.
✓ You hear the exchange tone.	✓ You hear the internal dial tone of your telephone system.
2. Press the R key.	2. Dial the TC-gateway.

✓ You hear the command tone of the TC-gateway.

3. Press the "star" key and enter the code number "1".

4. Press the "star", enter the master call-forwarding number and press "hash".

> ℹ️ **Change or delete master call-forwarding number**
>
> To **change** the master call-forwarding number, you overwrite the existing number with a new number.
>
> To **delete** the master call-forwarding number, you carry out the procedure without entering a telephone number.

✓ You hear the continuous acknowledgement tone as a sign that the entry has been successfully accepted.

Operation - master call forwarding off/delayed/immediately

With master call forwarding activated, all door calls are forward to the master call-forwarding number.
A differentiation is made between:

- Off: the telephone numbers of the telephone book apply.
- Delayed (not possible with the answering machine function activated, see Page 23): The door calls are first forwarded to the telephone numbers in the telephone book. After the local call time expires (in the Exchange connection mode) or the external call time expires (in the Extension mode), the door call is forwarded to the master call-forwarding number.
- Immediately: The door calls are immediately forwarded to the master call-forwarding number.

Please switch over the master call-forwarding as follows:

For connection to TLN (DCS):	**For connection to tel. system:**
1. Pick up the receiver.	1. Pick up the receiver.
✓ You hear the exchange tone.	✓ You hear the internal dial tone of your telephone system.
2. Press the R key.	2. Dial the TC-gateway.

✓ You hear the command tone of the TC-gateway.

3. Press the "star" key and enter the code number "2".

4. Press the "star" key and enter the code number for the mode of the master call forwarding:
   0 = off, 1 = delayed, 2 = immediately

5. Press the "hash" key to save the entry.

✓ You hear the continuous acknowledgement tone as a sign that the entry has been successfully accepted.

Here you can specify the telephone number variant to which the door call is to be forwarded. For example, during the day Variant 1, in the evening and at the weekend Variant 2.

Please switch over the variant as follows:

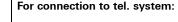| **For connection to TLN (DCS):**	**For connection to tel. system:**
1. Pick up the receiver.	1. Pick up the receiver.
✓ You hear the exchange tone.	✓ You hear the internal dial tone of your telephone system.
2. Press the R key.	2. Dial the TC-gateway.

✓ You hear the command tone of the TC-gateway.

3. Press the "star" key and enter the code number "3".

4. Press the "star" key and enter the code number for the desired variant:
   1 = Variant 1
   2 = Variant 2

5. Press the "hash" key.

✓ You hear the continuous acknowledgement tone as a sign that the entry has been successfully accepted.

> **i** **Tip**
>
> Save the two key combinations for switching over the variants on two speed dialling keys of your telephone.

To run the switching actuator function, please proceed as follows.

For connection to TLN (DCS):	**For connection to tel. system:**
1. Pick up the receiver.	1. Pick up the receiver.
✓ You hear the exchange tone.	✓ You hear the internal dial tone of your telephone system.
2. Press the R key.	2. Dial the TC-gateway.

3. Press the "hash" key.

4. Press the code number of the switching actuator (2-9) to run the switching function.
Depending on the selected switching actuator function, you can also switch off the device on the switching actuator again with this procedure (e.g. in the "Switching" function).

Application example - single-family house

The single-family house has a door station, a home station with an additional call button, a switching actuator, which is to switch the outside light, and a TC-gateway. The TC-gateway is connected to the analogue telephone connection.

Commissioning

1. Install the Gira door communication system.
2. Assign the door-station call button to the home station (see instructions for control device).
3. Program the door opener function (see instructions for control device).
4. Program the switching actuator (see instructions for switching actuator).

Assign TC-gateway

5. Set the TC-gateway to "Exchange connection".
   DTMF code: [R * 0 * PIN #] * 3 * 0 # (also see Page 17)
6. Assign the door-station call button to the TC-gateway.
   DTMF code: [R * 0 * PIN #] * 2 * 1 * 01 # (also see Page 18)
7. Program the switching actuator function
   DTMF code: R # 2 (also see Page 21).

Enter the telephone numbers (also see Page 23)

The following requests are to be realised:

- During the day, when the homeowner is at work, the door call is to be forwarded to his mobile phone.
  For this purpose, his mobile number is entered in Variant 1.
- When the owner is at home, the door call is to be signalled by the telephone connected to TLN (DCS). For this purpose, no telephone number is entered in Variant 2. In addition, the answering machine function is to be activated for Variant 2 (answering-machine code number "2").

DTMF code: [R * 0 * PIN #] * 1 * 01 * 017512564 * * 2 #

Call Button/ Name	Door Station	Index	Tel. No. for Variant 1	Tel. No. for Variant 2
Miller	1	01	017512564	

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Application example - multi-family house

The house divided into several flats has a door station with three call buttons. There is a home station and a TC-gateway with an additional power supply (AS) in each of the flats.

Commissioning

1. Install the Gira door communication system.
2. Assign the door-station call buttons to the home stations (see instructions for control device).
3. Program the door opener function (see instructions for control device).

Assign TC-gateways (3 times)

4. Set the TC-gateways to "Exchange connection".
   DTMF code: [R * 0 * PIN #] * 3 * 0 # (also see Page 17)
5. Assign the door-station call button to the TC-gateways.
   DTMF code: [R * 0 * PIN #] * 2 * 1 * 01 # (also see Page 18)

Enter the telephone numbers (also see Page 23)

The following requests are to be realised:

The Miller family would like the door call to always be forwarded to the telephone connected to TLN (DCS). For this purpose, no telephone number is entered in both variants.
The answering machine functions is to be activated.

DTMF code: [R * 0 * PIN #] * 1 * 01 * * * 3 #

Call Button/ Name	Door Station	Index	Tel. No. for Variant 1	Tel. No. for Variant 2
Button 3rd floor Miller	1	01		

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Mrs Major would like call forwarding to her mobile phone when she leaves her flat. For this purpose, her mobile phone number is entered in Variant 2.

In addition, the answering machine function is to be activated for the telephone on the TLN (DCS) connection (Variant 1). If she forgets to switch over to Variant 2 when she leaves the flat, the visitor can leave a message.

DTMF code: [R * 0 * PIN #] * 1 * 01 * * 017512564 * 1 #

Call Button/Name	Door Station	Index	Tel. No. for Variant 1	Tel. No. for Variant 2
Button 2nd floor Major	1	01		017512564

Mr Smith would like to forward the door call to his office number during the day. For this purpose, his office number is entered in Variant 1.

In the evening the telephone in his flat connected to TLN (DCS) is to ring. The answering machine function is also to be activated for this telephone.

DTMF code: [R * 0 * PIN #] * 1 * 01 * 030123456 * * 2 #

Call Button/Name	Door Station	Index	Tel. No. for Variant 1	Tel. No. for Variant 2
Button 1st floor Smith	1	01	030123456	

When Mr Smith is out, all door calls are to be immediately forwarded to his mobile phone.

Enter master call-forwarding number:
DTMF code: R * 1 * 017512564 #

Master call forwarding immediately:
DTMF code: R * 2 * 2 #

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Application example - multi-generation house

Türstation

230 V AC

TK-Gateway

U_b Amt a / b   TLN a´/ b´   BUS

Steuergerät

BUS   12 V~

Telefonanlage

Telefonanschluss

Türöffner

Two generations live in a multi-family house. In addition, Mr. Miller's office is located on the 3rd floor.

Commissioning

1. Install the Gira door communication system.
2. Program the door opener function (see instructions for control device).

Commission TC-gateway

3. The gateway is connected to the extension station (e.g. NO. 20).
4. The TC-gateway is still in the factory state, i.e. in the setting "Extension connection" (also see Page 17).
5. Assign the door-station call buttons to the TC-gateway.
   DTMF code: [R * 0 * PIN #] * 2 * 1 * 01 # (also see Page 18)
   DTMF code: [R * 0 * PIN #] * 2 * 1 * 02 #
   DTMF code: [R * 0 * PIN #] * 2 * 1 * 03 #

Enter the telephone numbers (also see Page 23)

• When Mr Miller is in the office, the door call is to be forwarded to the office connection (No. 21). For this purpose, the office number (No. 21) is entered in Variant 1.
  When no one is in the office, the door calls are to be routed to Mr Miller's mobile phone.
  In both variants, it is to be possible to record the answering machine or the mailbox.

DTMF code: [20 * 0 * PIN #] * 1 * 01 * 21 * 017512564 * 3 #

• When the call button "Miller, Jr." is pressed, the door call is always to be routed to the telephone in the flat "Miller, Jr."
  When he is not at home, the door calls are to be routed to Mr Miller's mobile phone. It is to be possible to record the mobile mailbox on the mobile phone.

DTMF code: [20 * 0 * PIN #] * 1 * 01 * 22 * 017512564 * 2 #

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- When the call button "Miller, Sr." is pressed, the door call is always to be routed to the telephone in the flat "Miller, Sr." There is no answering machine on this telephone connection.

DTMF code: [20 * 0 * PIN #] * 1 * 01 * 23 * 23 * 0 #

Call Button/ Name	Door Station	Index	Tel. No. for Variant 1	Tel. No. for Variant 2
Miller's office	1	01	21	017512564
Miller, Jr.	1	02	22	017512564
Miller, Sr.	1	03	23	23

When the entire family drives to its weekend house at the weekend, all door calls are to be forwarded immediately to Mr Miller's mobile phone.

Enter master call-forwarding number:
DTMF code: 20 * 1 * 017512564 #

Set "master call forwarding immediately":
DTMF code: 20 * 2 * 2 #

Table for start-up documentation

Call Button/ Name	Door Station	In- dex	Tel. No. for Variant 1	Tel. No. for Variant 2
		01		
		02		
		03		
		04		
		05		
		06		
		07		
		08		
		09		
		10		
		11		
		12		
		13		
		14		
		15		
		16		
		17		
		18		

Overview of DTMF codes - for connection to TLN (DCS)

Action	DTMF Code
Set connection on exchange (0), extension (1)	R * 0 * PIN # * 3 * code number #
Assign call button[1]	R * 0 * PIN # * 2 * door station[2] * index[3] #
Enter telephone number	R * 0 * PIN # * 1 * index[3] * No. 1 * No. 2 * AM #
Set local call time	R * 0 * PIN # * 4 * call time[4] #
Set external call time	R * 0 * PIN # * 5 * call time[4] #
Set door conversation time	R * 0 * PIN # * 6 * door conversation time[4] #
Change PIN	R * 0 * PIN # * 9 * new PIN[5] * new PIN #
Assign switching actuator[6]	R # number[2]
Reset to factory setting	R * 9 * 19 28 37 46 55 #
Accept door conversation	0
Call door station	R number of DS
Open the door	R 0
Enter/change/delete master call-forwarding number	R * 1 * number #
Master call forwarding off (0), delayed (1), immediately (2)	R * 2 * code number #
Switch over variants Variant 1 (1), Variant 2 (2)	R * 3 * code number #

1. With activated Programming mode on control device.
2. Single-digit entry 1- 9, e.g. "1".
3. Two-digit entry 1-50, e.g. "01".
4. Time three-digit in seconds, e.g. "070" for 70 s.
5. PIN at least four-digit.
6. With activated Programming mode on control device and on switching actuator.

Overview of DTMF codes - for connection to telephone system

Action	DTMF Code
Set connection on exchange (0), extension (1)	NO[1] * 0 * PIN # * 3 * code number #
Assigning call button[2]	NO * 0 * PIN # * 2 * door station[3] * index[4] #
Enter telephone number	NO * 0 * PIN # * 1 * index[3] * No. 1 * No. 2 * AM #
Set local call time	NO * 0 * PIN # * 4 * call time[5] #
Set external call time	NO * 0 * PIN # * 5 * call time[4] #
Set door conversation time	NO * 0 * PIN # * 6 * door conversation time[4] #
Change PIN	NO * 0 * PIN # * 9 * new PIN[6] * new PIN #
Assign switching actuator[7]	NO # number[2]
Reset to factory setting	NO * 9 * 19 28 37 46 55 #
Accept door conversation	0
Call door station	NO number of DS
Open the door	R 0
Enter/change/delete master call-forwarding number	NO * 1 * number #
Master call forwarding off (0), delayed (1), immediately (2)	NO * 2 * code number #
Switch over variants Variant 1 (1), Variant 2 (2)	NO * 3 * code number #

1. Number (NO) of telephone system extension to which the TC-gateway is connected.
2. With activated Programming mode on control device.
3. Single-digit entry 1- 9, e.g. "1".
4. Two-digit entry 1-50, e.g. "01".
5. Time three-digit in seconds, e.g. "070" for 70 s.
6. PIN at least four-digit.
7. With activated Programming mode on control device and on switching actuator.

Specifications

Supply voltage	12 V to 24 V DC
	12 V AC
Operating temperature:	-10 °C to +60 °C
Dimensions	series inst. device with 6 modules
Dialling method:	DTMF (dual tone multi-frequency dialling)

Warranty

We provide a warranty in accordance with the statutory requirements.

Please send the device postage paid with an error description to our central customer service centre.

Gira
Giersiepen GmbH & Co. KG
Service Center
Dahlienstraße 12
D-42477 Radevormwald

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