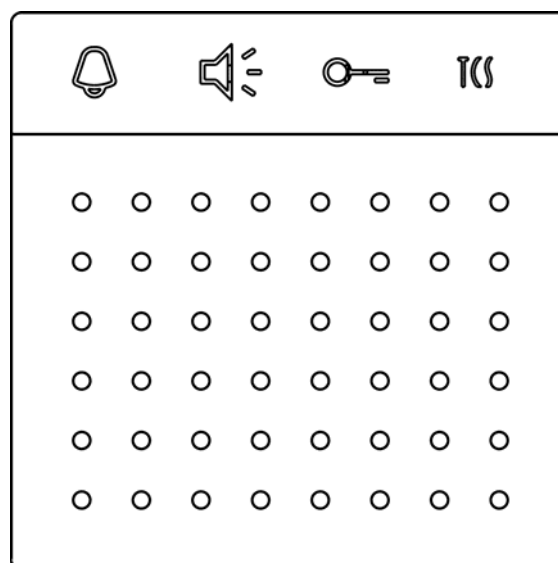




Product information
TCS:BUS speech module
AMI11110



Note on the validity of this product information

This product information states specific information on the module.
It is only valid in combination with the enclosed product information *Module of the series* *AMI in front-door stations*.

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Scope of delivery

- 1 x AMI11110-0000 TCS:BUS speech module
- 3 x spacer foil 0.5 mm
- 1 x connecting cable with 4 pins
- 4 x M4 securing nut M4
- 1 x screw driver with round-handle
- Product information *AMI11110 TCS:BUS speech module*
- Product information *Modules of the series AMI in front-door stations*

Intended use

- The AMI11110 TCS:BUS speech module is a central module for front-door stations of the series AMI in individual assembly.
- To implement the main functions of the front-door station: door call, voice connection, door release.
- The module is suitable for the installation into front panels of the flush-mount kits ZAU200x and communication posts K3xxxx for indoor and outdoor use .
- It can be combined with other modules of the series AMI (instead of keypad module AMI10300, jogwheel module AMI10400, built-in door loudspeaker module AMI11100 as well as display and loudspeaker module AMI10105).

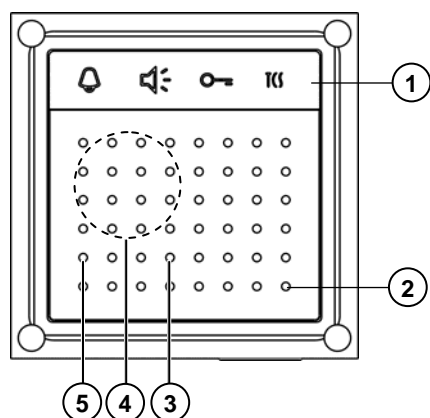
Short description

- connection to bell button module via connector with 4 pins
- voice-controlled hands-free talking (standard)
- full-duplex hands-free talking for indoor stations with handset can be activated
- per bell button 2 indoor stations can be allocated
- error detection and indication
- conversation volume and volume of acknowledgement tones can be adjusted manually
- plug-in memory for removing TCS:BUS speech modules AMI11110 that are identical in construction
- R-terminal for connection of an extended function *door release*
- integrated twilight switch, threshold value can be adjusted in 8 steps
- Call numbers with max. 10 digits can be stored for phone direct dial (when function FBO1100 direct dial is activated.)

Technical data

housing	aluminium, anodised
H x W x D	105 x 105 x 26 mm
weight	345 g
acceptable ambient temperature	-25 °C to +55 °C
input current in resting position	I(a) = 0.1 mA, I(P) = 5.9 mA
max. input current	I(Pmax) = 13.5 mA
3-wire technique necessary!	

Overview



1 pictogram indication
calling (yellow)
speaking (green)
door release (blue)

2 microphone

3 light sensor

4 loudspeaker

5 red LED
error indication,
indication bell button
programming

6 connection for
further **module** with
connection cable with 4
pins (e.g. bell button mod-
ule AMI1090x) and **Service Device**

7 volume control
acknowledgement
tones

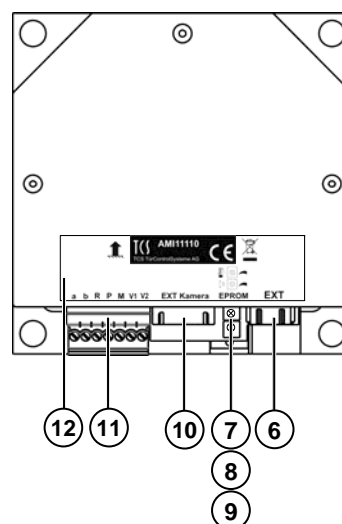
8 volume control speak-
ing

9 EEPROM




10 connection for cam-
era
for external camera

11 connection TCS:BUS®
pluggable screw termi-
nal

12 type label with
orientation arrow
(above) for the installation
position



Indication and operating elements

picto-gram	Term	Function ^{a)}
	Indication calling (yellow)	<ul style="list-style-type: none"> • ON: Door standby, by pressing the bell button a door call is sent. • Blinking: 3 s after an outgoing door call, the ON.
	Indication speaking (green)	<ul style="list-style-type: none"> • ON: A voice connection is established.
	Indication door release (blue)	<ul style="list-style-type: none"> • ON: The door opener is pressed, the door opens.

^{a)} The function of the pictogram indications can be deactivated with *configo*TM: all OFF.

Installation

Installation position

Install the TCS:BUS speech module into the front panel with the terminals downwards!
For further information see the product information *Modules of the series AMI in front-door stations*.

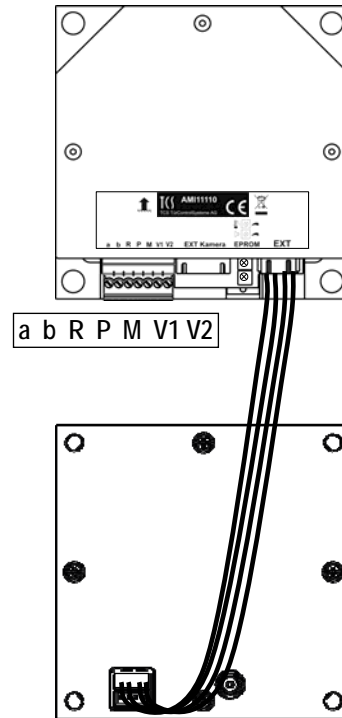
Connecting the lines

Internally connect the module in the front-door station

After the installation in the front panel, the modules have to be wired internal.

A module with a 4-pin connecting cable is connected to the TCS:BUS speech module (e.g. bell button module).

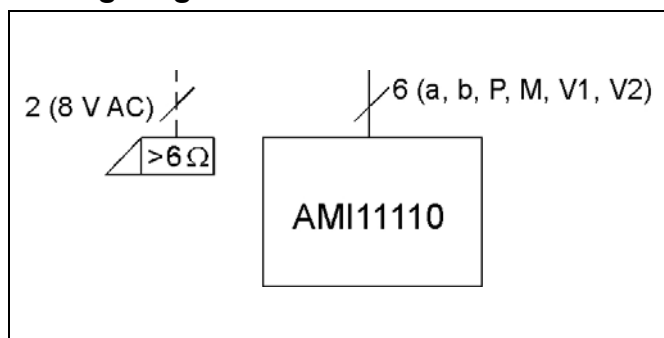
AMI11110

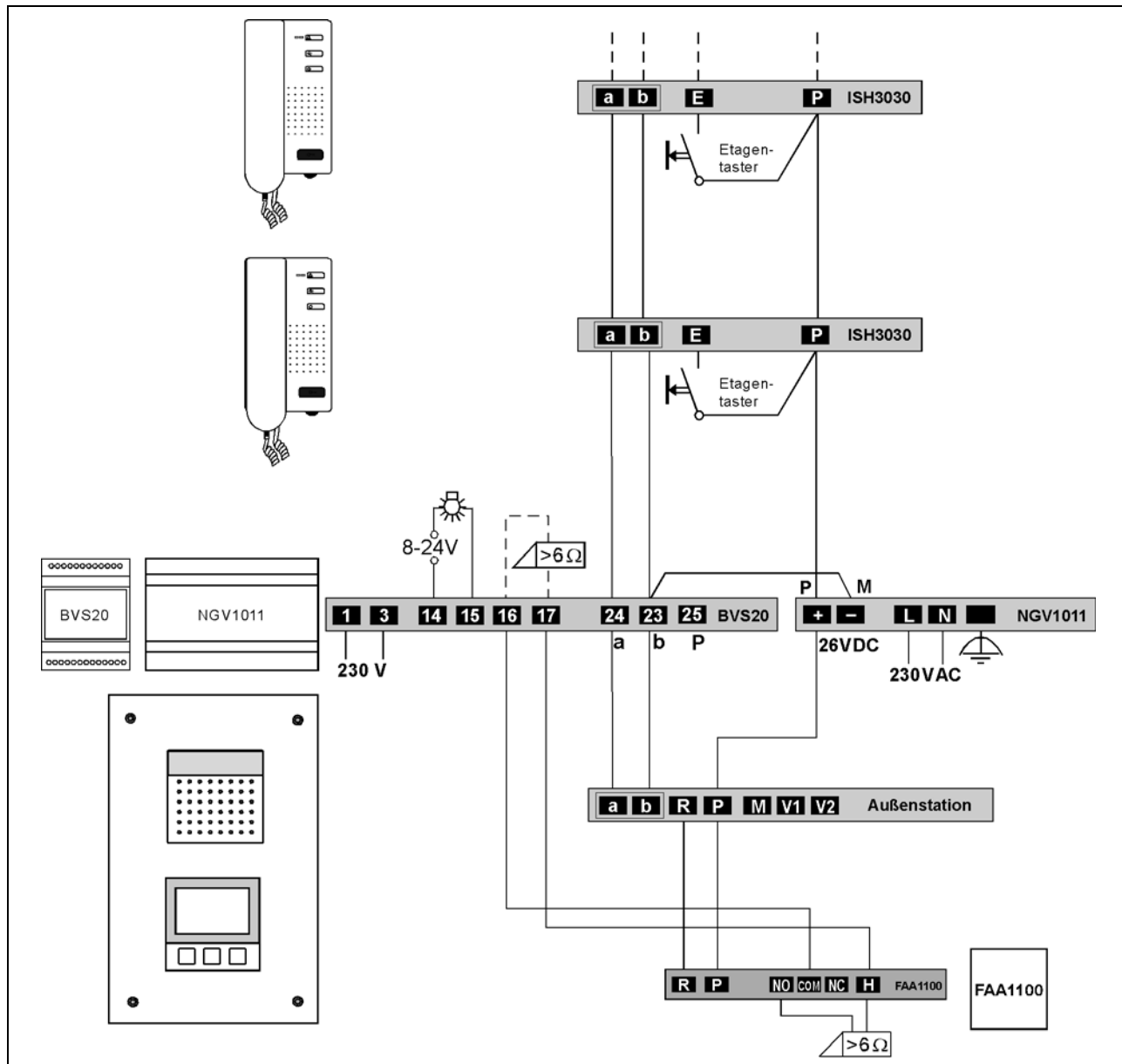


bell button
module
AMI1090x

Note: For further examples for internal wiring see the product information of the relevant AMI module.

Wiring diagram



Example circuit**Connecting lines**

permitted cross-section (diameter): 0,08 ... 0,82 mm² (0,32 ... 1,0 mm)

max. number of wires per terminal contact:

connection TCS:BUS®: 3 x 0,6 mm or 2 x 0,8 mm







! Further wires have to be connected via auxiliary terminals!

! Use only connecting lines with the same diameter within one terminal contact.

Initial operation

error detection and indication

Errors are signalled optically through flashing of the red LED. When pressing a button at a connected bell button module or in case of other ways of calling a call destination, an error tone sounds. The optical error indication stays active until the error is corrected.

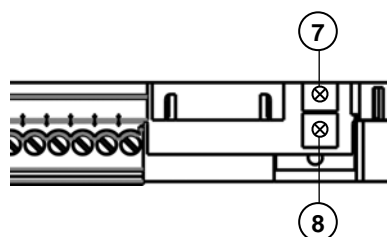
error causes	Indication	error tone	error correction
transmission error: internal connections	 operating LED, red flashes (1:7, 1 Hz)		check internal connecting cables and plugs
EEPROM is missing or plugged incorrectly			fit in the EEPROM, Switch on the mains power again!
a- and P-wire are interchanged or short-circuited			change a- and P-wire or remove short-circuit, device is in standby mode again
a-wire is not connected			connect the a-wire, device is in standby mode again
Button sticks (press longer than 25 sec)			release the button, device is in standby mode again

Settings

Adjust the volume for voice and acknowledgement tones

! Use the enclosed small screw driver for the adjustment!

- The volume for voice (loudspeaker) and acknowledgement tones can be adjusted via two separate controls.
- The volumes are set on an average value ex works.



7 volume control
acknowledge-
ment tones

8 volume control
speaking

Configuration

Configuration options and factory settings

function	manually	TCSK-01	configo™ as of version 1.9.	Default setting
IP address	–	x	x	0, automatic changeable
communication time	–	x	x	56 sec
door standby time	–	–	x	56 sec
door release time (R-contact)	–	–	x	4 sec
programming lock (ON/OFF)	–	x	x	OFF
type of acknowledgement tone (OFF / acknowledgement tone / ring tone)	–	x	x	ring tone
Speaking only during active door standby (ON/OFF)	–	x	x	OFF
light switch function (via door release button of the indoor station) ON/OFF	–	x	x	OFF
volume speaking	x	–	–	average value
volume acknowledgement tone	x	–	–	average value
twilight switch (ON/OFF)	–	–	x	ON
threshold value for twilight switch	–	–	x	level 3 from 8
pictogram indication (ON/OFF)	–	–	x	ON
ignore 32 bit door release protocols (ON/OFF)	–	–	x	OFF
control backlight	–	–	x	brightness dep.
full-duplex operation for indoor stations with handset (ON/OFF)	–	–	x	OFF
buzzer function (output acoustic door release simulation when using DC door opener)	–	–	x (as of version 1.9.1.0)	OFF
key functions for connected module with bell buttons (AMI1090x, AMI11603)				
key function 1 (door call to destination 1)	x ^{a)}	–	x	lights
key function 1 (light / door opener / control function)	–	–		
key function 2 (door call to destination 2)	x ^{a)}	–	x	without function
key function 2 (without function)	–	–		
send any control function when pressing a bell button (serial number of the control function = serial number of the AMI11110)	–	–	x	lights
bell button programming (door call to destination 1 and destination 2)	x ^{a)}	–	x	lights
send a 16 bit door release command	–	–	x	OFF
door opener only during active door standby	–	–	x	OFF
activate FBO1100 direct dial ^{b)}	–	–	x	OFF

^{a)} Switching on the programming mode of the system at the power supply and control unit, see Bell button programming, S. 11)

^{b)} **FBO1100 direct dial is activated:** one phone can be called directly (input of a call number with max. 10 digits via code lock module AMI11200). (When combining it with the display module AMI11603: see product information AMI11603.

Setting the AS address

The AS addresses of TCS:BUS speech module AMI11110 in combination with a bell button module AMI1090x must be identical to establish a connection.

- Adjust the AS addresses to the same value and block them.

Central switching of the illumination of the front-door station via TCS:BUS speech module

Besides the TCS:BUS speech module, further modules with illumination can be connected to a front-door station: illumination module ami11400, display module with 3 buttons AMI11603, information module AMI11300. The illumination of these modules can be controlled centrally by the speech module. Activate the sensor with the configuration software configo™ only at one of the modules.

- Deactivate the sensors of both other modules:

Module	Setting
illumination module AMI11400	illumination sensor: remove the checkmark external illumination sensor: place the checkmark
display module with 3 buttons AMI11603	mode backlight: depending on the brightness

- Select a mode backlight for the TCS:BUS speech module.

Bell button programming

Basic principle

- All devices at the TCS:BUS[®] have an unique serial number.
- When programming a bell button, the serial number of an indoor station is allocated to the bell button and the allocation is stored in the EEPROM of the front-door station. Per bell button 1 or 2 indoor stations (serial numbers) can be allocated and called.
- If no serial number is allocated to a bell button (delivery state: allocation deleted), the lights can be switched by pressing this button.











Manual programming of a bell button

Ensure, that the indoor station is connected to the TCS:BUS[®] and that the mains voltage is switched on (LED at the power supply and control unit is on).

Notes:

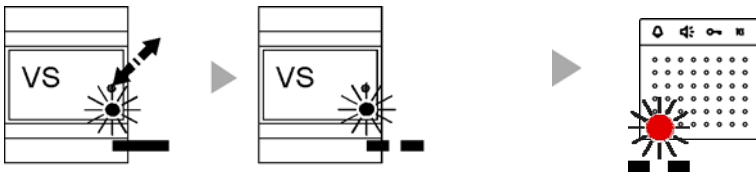
- Before an already programmed bell button can be programmed newly, the programming must be deleted.
- The AS addresses of the bell button modules and the TCS:BUS speech module resp. display module have to be identically to establish a connection: Adjust the AS addresses to the same value and block them.
- The AS-address of the bell button module AMI1090x can be configured only with the configuration software configo[™] or the Service Device TCSK. Protocol number for setting via TCSK: *76 # SNo. # AS #.

Legend

press button shortly		negative acknowledge- ment tone (LED blinks quickly 5 times)	
press the button until...		positive acknowledgement tone (LED lights up shortly, blinks than again)	
release the button		Progsper-tone	
ring tone		repeat	
period of time (e.g. 6 s)		further	

1 Initiate Switching on the programming mode of the system

power supply and control unit

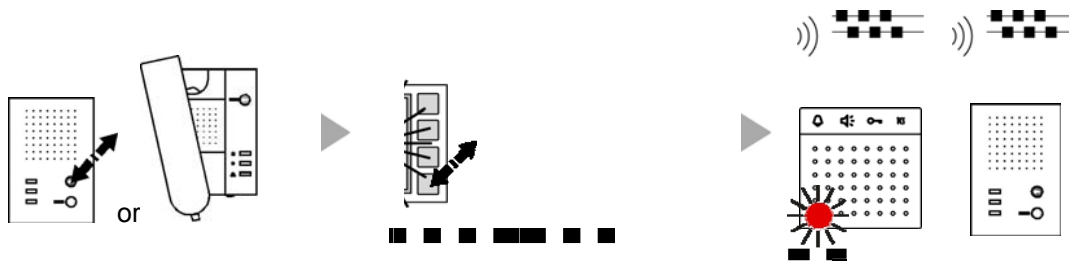


RUN/PROG push-button:
shortly press

LED blinks

Red LED at the speech module blinks.¹⁾
Programming mode of the system is switched on.

2a Via voice connection

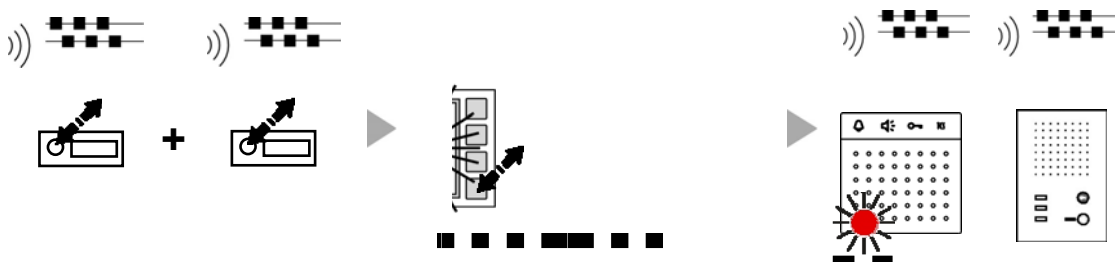


establish voice connection
to the front-door station

bell button²⁾ shortly press,
positive acknowledgement
(LED shortly lights up, then
blinks again)

... until a ring tone sounds at the
front-door and indoor station ¹⁾

2b alternatively: via floor push-button (indoor station is not accessible)



Shortly press the floor push-
button 2 times within 1 s,
each time a ring tone
sounds

shortly press the bell button,
positive acknowledgement
(LED shortly lights up, then
blinks again)

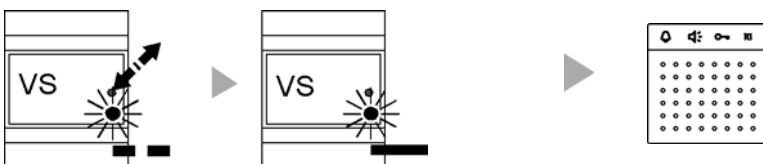
... until a ring tone at the front-door
station and a ring tone at the indoor
station sounds ³⁾



Repeat the steps until all bell buttons are programmed

3 End programming

power supply and control unit



RUN/PROG push-button:
shortly press

LED lights up

Red LED at the speech module is off.
Programming mode of the system is switched off.

1) A connected bell button module is reacting on all actions, too (see product information AMI10900).

2) Bell button: e.g. of a connected bell button module

3) If there is no response, the programming lock of the bell button module is activated. The programming lock can be deactivated only with the Service Device TCSK or the configuration software configTM.

Programming a second indoor station to a bell button

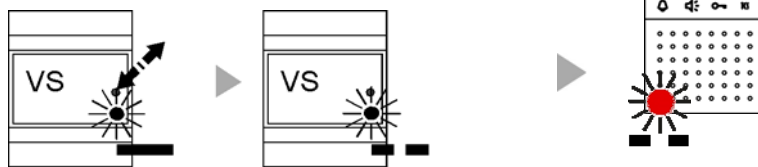
If 2 indoor stations should be called by pressing a bell button, the serial number of the second indoor station can be allocated additionally to this bell button.

Note:

Repeated programming of an already programmed bell button, changes always only the second serial number.

1 Initiate Switching on the programming mode of the system

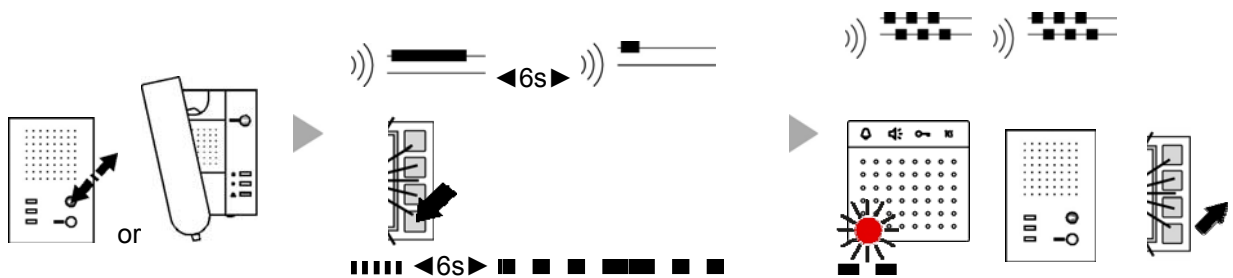
power supply and control unit



RUN/PROG push-button:
shortly press LED blinks

The name plate of the bell button module blinks.
Programming mode of the system is switched on.

2a Via voice connection

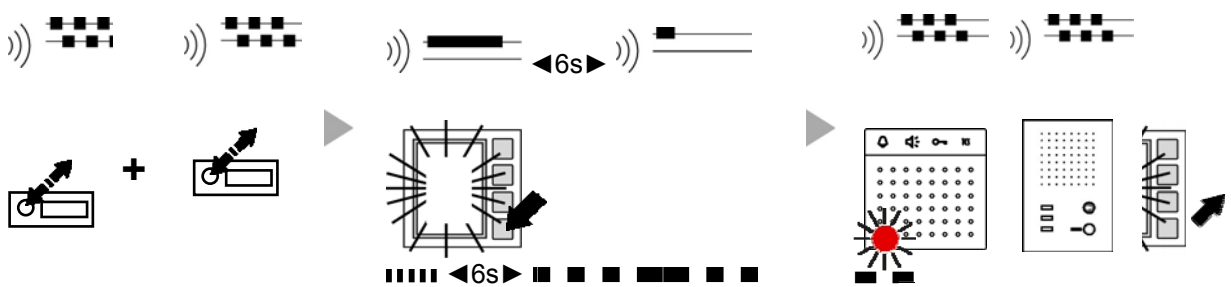


establish voice connection
to the front-door station

Press the button until
a negative acknowledgement tone and a positive acknowledgement tone and...

... a ring tone sounds
at the front-door and
indoor station ¹⁾ Release
indoor station

2b alternatively: via floor push-button (indoor station is not accessible)



Shortly press the floor
push-button 2 times
one after another, each
time a ring tone sounds

Press the button until
a negative acknowledgement
tone and
a positive acknowledgement
tone and...

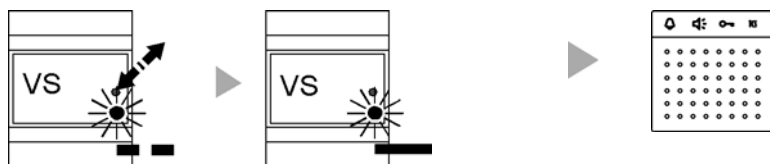
... a ring tone sounds
at the front-door and
indoor station ¹⁾ Release
indoor station

Repeat the steps until all bell buttons are programmed

1) If there sounds a Progsper-tone instead, a programming lock is set at the front-door station. The programming lock can be deactivated onl with the Service Device TCSK or the configuration ssoftware configTM.

3 End programming

power supply and control unit



RUN/PROG push-button:
shortly press LED lights up

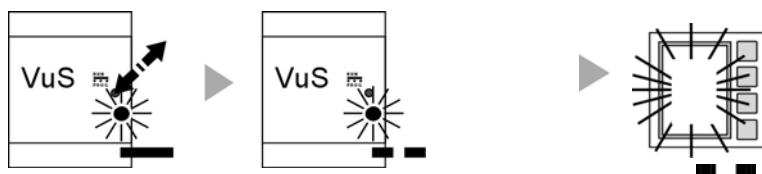
Red LED at the speech module is off.
Programming mode of the system is switched off.

Delete the programming

Before an already programmed bell button can be programmed newly, the programming must be deleted.

1 Initiate Switching on the programming mode of the system

power supply and control unit



RUN/PROG push-button:
shortly press LED blinks

The name plate of the bell button module blinks.
Programming mode of the system is switched on.

2 Delete button



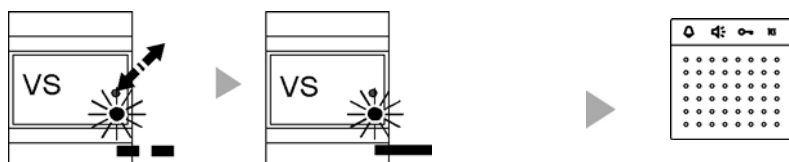
■■■■ ◀6s▶ ■ ■ ■ ■ ■ ■ ■ ■ ■ ■

Press the button until
a negative and a positive acknowledgement tone
sounds¹⁾

Release

3 End programming

power supply and control unit



RUN/PROG push-button:
shortly press LED lights up

Red LED at the speech module is off.
Programming mode of the system is switched off.

1) If there sounds a Progsper-tone instead, a programming lock is set at the front-door station. The programming lock can be deactivated only with the Service Device TCSK or the configuration software configo™.

Repair

All programmed data such as serial numbers and parameters is stored in the EEPROM. If the TCS:BUS speech module needs to be exchanged, the EEPROM storage can be removed from the front-door station and inserted into the new module, that is identical in its construction.

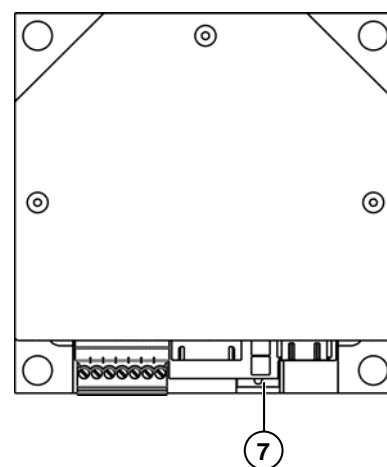
! ATTENTION!
Remove and plug the EEPROM only in voltage-free status!

Exchanging the EEPROM storage

- Open the front-door station with the defect TCS:BUS speech module.
- Disconnect the module from the mains voltage.
- Exchange the defect module (see product information *Modules of the series AMI in front-door stations*).
- The EEPROM is located at the rear side of the module. Remove the EEPROM storage.
- Plug the EEPROM storage onto the pins of the new module.

! Observe the orientation of the EEPROM storage: the component side must be facing you.

- Connect the module to the mains voltage again.



7 EEPROM

Accessory

Short text	Article number
Maintenance package	FBI1210-0
bell button module, 1 button EN	AMI10901-0010
bell button module, 1 button SW	AMI10901-0057
bell button module, 2 button EN	AMI10902-0010
bell button module, 2 button SW	AMI10902-0057
bell button module, 3 button EN	AMI10903-0010
bell button module, 3 button SW	AMI10903-0057
bell button module, 4 button EN	AMI10904-0010
bell button module, 4 button SW	AMI10904-0057
display module AMI11603 with 3 buttons EN	AMI11603-0010
display module AMI11603 with 3 buttons SW	AMI11603-0057

Service

Please send your questions and inquiries to
hotline@tcsag.de

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