TCS®
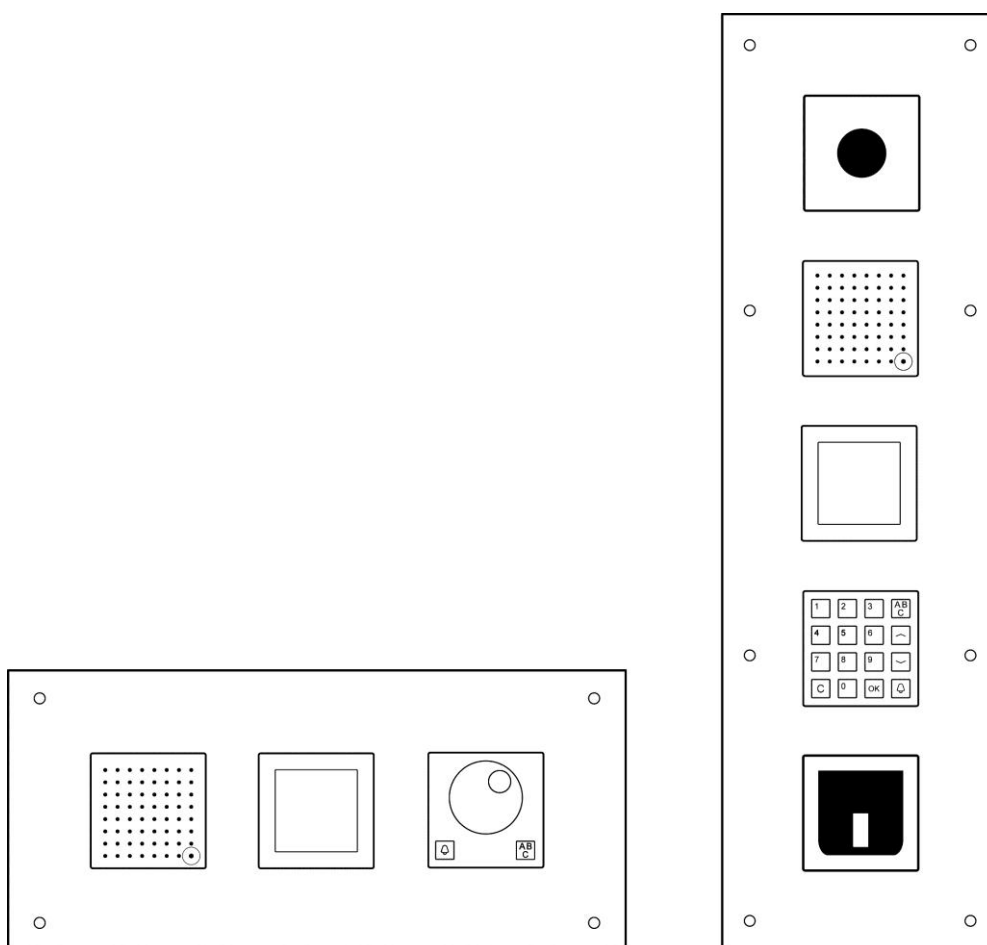
Programming manual

Functional group with display module AMI1010x

Modules of the series AMI in front-door stations

Table of contents

Remote maintenance for front-door stations with display module

Notes

- Remote maintenance is only possible **for front-door stations with display module AMI1010x!**

> **!** For remote maintenance you need the software *ADx configurator* (part of the maintenance package FBI1210-0, not part of the delivery, see *Accessory*, page 24.
>
> For settings and programming of the display module, you can **only** use **a PS/2-keyboard** (not part of the delivery, see *Accessory*, page 24)!
>
> A PC keyboard with USB connection or a USB adaptor cannot be used!

   System requirements for the ADx configurator:
   - CD-ROM drive
     Operating systems: Windows 98 SE, 2000, XP, Windows 7

- The ADx configurator is part of the maintenance package FBI1210-0, refer to *Accessory* page 24 or www.tcsag.de >downloads > software > configurators, ADx

   System requirements for the maintenance package:
   - USB-Host-Interface, USB 1.2 or USB 2.0 standard
   - Operating systems: Windows XP (as of SP2), Vista or Windows 7, Linux (Kernel with CDL Interface)

- The RS485 interface is located at the display module. To reach the interface, the front-door station has to be opened.
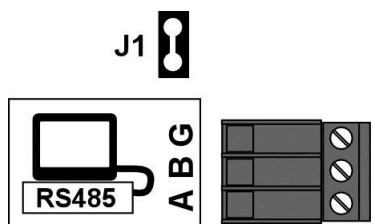
Connection via RS485 interface

> **Attention!**
>
> **!** If front-door stations with modules are located in different buildings and if the stations are eventually supplied via different mains phases, a direct connection of these front-door stations via the RS485 interface is not allowed!
>
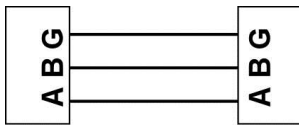> The potential shifts that may occur at the 230 V side, can cause damage to the front-door stations.

- The connecting lines between front-door station and converter have to be twisted (twisted pair), e. g.: J-Y(St)Y2x2x0.6 or CAT5 (AWG23).
  The line length should not exceed 1500 m.
  The baud rate set at the converter must be identical to the baud rate set at your PC-COM-ports.

J1 In delivery state, the matching resistor is set.
J1 has to be removed, if the front-door station is not placed as last device at the end of the RS485 strand.

Terminal G to connect a shield
Terminals A, B to connect the data cables
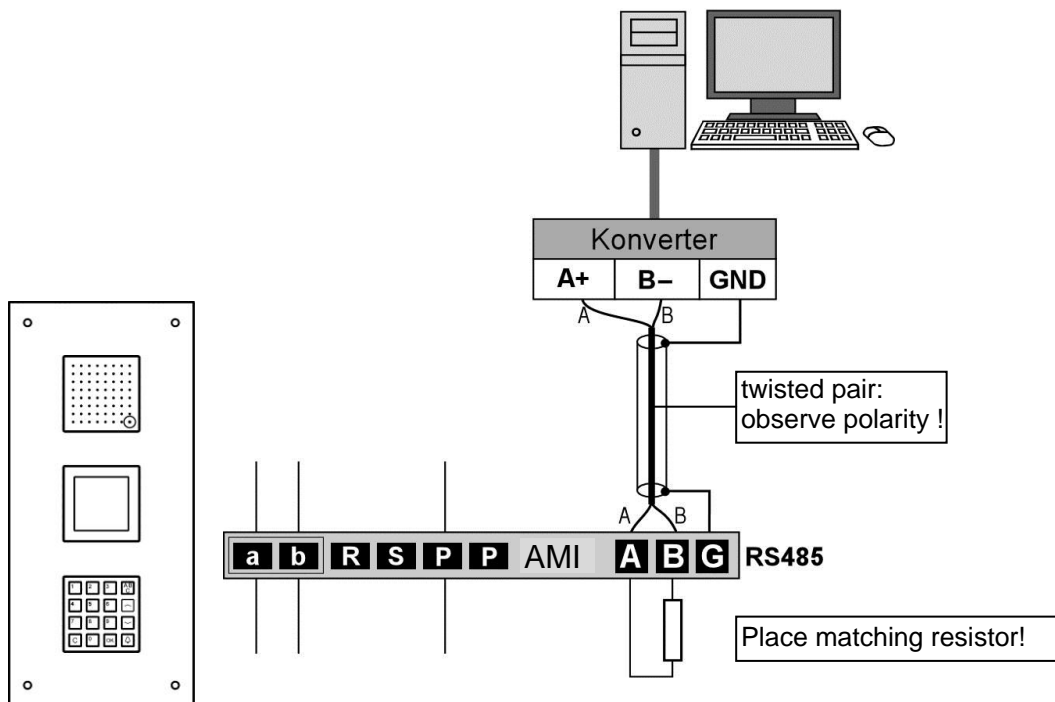
front-door station   converter

Connection diagram for RS485 interface

Connection via USB interface

- The interface is only suited for data transmission over short distances.
- For this, connect the front-door station with a USB cable directly to the PC.

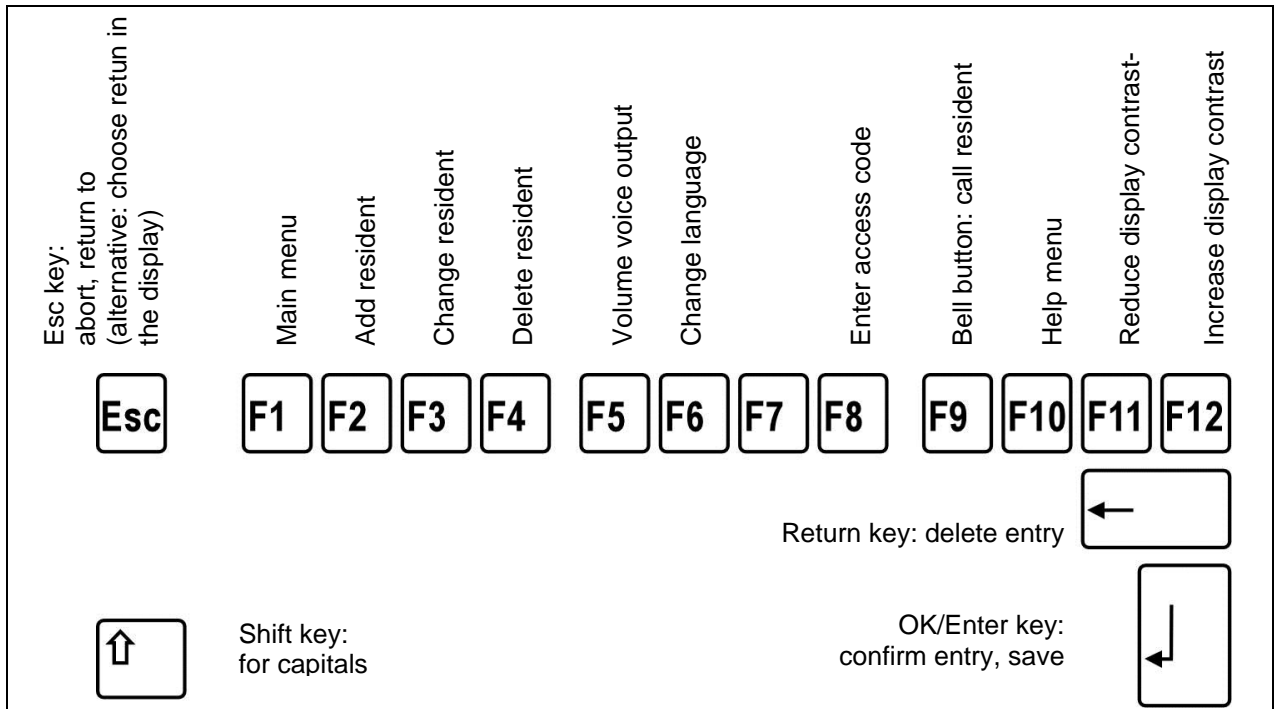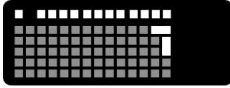## *Wiring diagram (RS485): basic wiring with a front-door station and PC*

! Series circuit when connecting several front-door stations with modules!
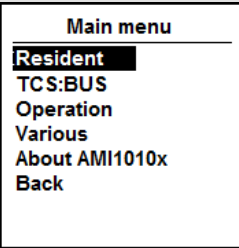
Explanations

Connect the keyboard

- At the loudspeaker module, remove the cover for the keyboard connection with an **allen key 3 mm** and connect a PS/2 keyboard (refer to product information *Modules of the series AMI in front-door stations*).
- Choose the requested menu by pressing the function key at the PS/2 keyboard.

Esc key: abort, return to (alternative: choose return in the display)	Main menu	Add resident	Change resident	Delete resident	Volume voice output	Change language	Enter access code	Bell button: call resident	Help menu	Reduce display contrast-	Increase display contrast
Esc	**F1**	**F2**	**F3**	**F4**	**F5**	**F6**	**F7**	**F8**	**F9**	**F10**	**F11**	**F12**

Return key: delete entry ←

Shift key: for capitals ⇧

OK/Enter key: confirm entry, save ↵

General notes

1. If the main menu has not been called up with the function keys F1, F2, F3 or F4 for a longer period (> 2 min), the master code is requested in order to return to the main menu or to the respective functions.

2. Esc key: return to the previous menu (also: choose **return** in the menu) resp. to the resident list.
OK/Enter key: to enter/confirm/save the OK/Enter key of the PS/2 keyboard or, if available, the OK key at the display front-door station can be used.

3. Return key: the character entered last will be deleted.

4. Return: By selecting this menu item, you return to the previous menu resp. to the resident list.

5. If no entry is made, the device automatically navigates to the next item:
– after approx. 15 sec from the help menu to the resident list.
– after approx. 30 sec to the resident list, after any button has been pressed.
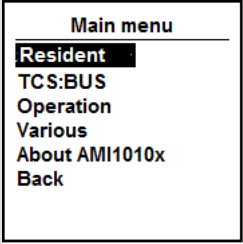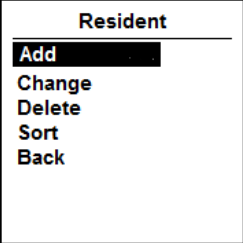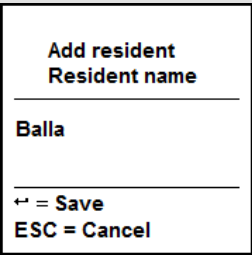– after further 30 sec to the start screen.

To the main menu

Display / Entry	Action / Description
TCS Welcome Press ᴬᴮ꜀ button	The display front-door station is ready for operation. The start screen is displayed. (example corresponds to the factory settings) (change: see operation > start screen, p. 18.)
[keyboard] F1	To start the programming: call up the main menu : • Press F1 key at the PS/2 keyboard
Please enter Master code: _____ ✖✖✖✖ Confirm the entry with OK	The master code is requested. • Enter the master code via the PS/2 keyboard. Factory setting: 1234. Also see *WE* (factory settings*)* and *general notes*. • Confirm the entry (with OK/Enter key). • Continue with further entries within 30 sec.
Main menu **Resident** TCS:BUS Operation Various About AMI1010x Back	After the master code has been entered correctly, the main menu appears: **Resident** **The resident database** **p. 7** **TCS:BUS®** **Settings BUS parameters** **p. 11** **Operation** **Settings for the user** **p. 15** **Verschiedenes** **Time, temperature, save/load** **p. 18**

The resident database
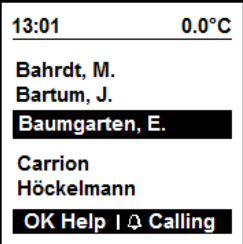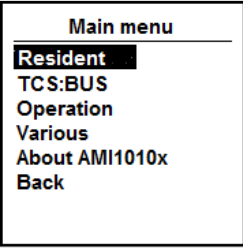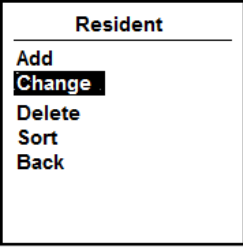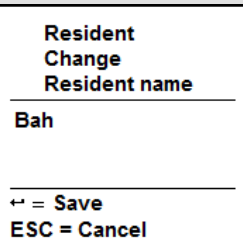
Add new resident dataset

- **Note:** Save your settings and resident datasets on the EEPROM memory!
  To save go to process other > save memory (see p. 20).

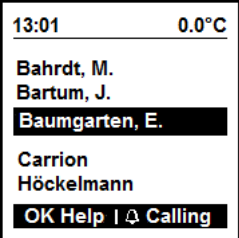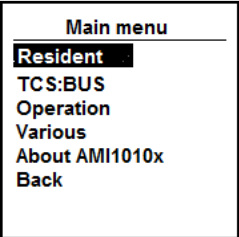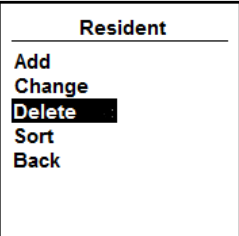| Display / Entry	Action / Description
or: ▢▢▢▢ F2 **Main menu** Resident TCS:BUS Operation Various About AMI1010x Back **Resident** Add Change Delete Sort Back	• Press the F2 key at the PS/2 keyboard or: • Choose the *Resident* in the main menu. • Choose *Add* in the resident menu. *Note:* *If a fault message is displayed stating that adding is not possible, the option* **hide empty datasets** *must be deactivated (see p. 15)*

Add resident
Resident name
 	
Balla
 	
_____
↵ = Save
ESC = Cancel
	• The name of the resident can consist of 32 characters. The display scrolls from the 15th character (displayed in the resident list as ticker.)
	• Possible special characters: |§!"#$%&/()=?´*+'`,;.:-_<>
	• Also alpha-numeric characters (letters and/or digits) are possible.
	• **Notes on sorting**:
	  Always enter numbers the same way: same number of characters, you may add preceding zeros (example: 123 and 045)
	  Blanks are evaluated when sorting (e.g. blanks after comma when trailing first names: Müller, Armin and Müller, Werner).
	• Confirm the entry.
	
	! **Attention**: **Save your entries by pressing the OK/Enter key, otherwise the dataset is rejected!**
	
	Special case exclamation marks
	• If as **first character** an exclamation mark (!) is entered, this dataset can be hidden as **unused dataset.** This dataset will not appear in the resident list, see *operation > options > hide empty DS* (see p. 15).
	• After the exclamation mark any text can be entered to describe the dataset.
	• If only **an exclamation mark** is entered, the flat number will be displayed behind the exclamation mark when saving the dataset. If the dataset is not hidden, *!flat number* appears in the resident list instead of a name.

Display / Entry	Action / Description
Add reisdent **Flat number** 12 ↩ = Save ESC = Cancel	• Enter a flat number with max. 8 digits. (Entry is necessary!) **!** **Attention: If the flat number includes letters, calling a resident by entering the flat number is not possible!**
Add resident **Floor** ↩ = Save ESC = Cancel	**Note:** This dialogue only appears, if the administration of floors has been activated under *operation* > *options* > *display floor* (p. 15). • Here, optionally a number from -10 to 126 can be entered. If other numbers are entered, e.g. 127, the output of the floor number (only for this dataset) is suppressed. When the floor number "0" is entered, the output is "ground floor". If there is no entry, 127 will be inserted automatically.
Add resident **Serial no. 1:** 235754 ↩ = Save ESC = Cancel	• Enter the serial number of the indoor station which is to be called. (Entry is necessary!)
Add resident **Serial no. 2:** 234789 ↩ = Save ESC = Cancel	A second serial number (from two indoor stations) can be allocated to a resident dataset. Thus, it is possible that two different indoor stations ring simultaneously. • Enter the serial number of the second indoor station. (An entry is not strictly necessary.) • Confirm the entry, even if no serial number has been entered.
13:01 0.0°C Bahrdt, M. Bartum, J. Baumgarten, E. Carrion Höckelmann OK Help I ♪ Calling	If you have confirmed the entry of your last dataset, you return to the resident menu. • Select another action. or • If you have completed all actions, select *sort*. The resident list is sorted alphabetically. Sorting: exclamation mark, number, special character, lower case, upper case. Umlauts are sorted after the respective vowels.

Modify resident

Display / Entry	Action / Description
13:01 0.0°C Bahrdt, M. Bartum, J. **Baumgarten, E.** Carrion Höckelmann **OK Help** | 🔔 **Calling**	• Select the name to be modified from the resident list.
F3 or: **Main menu** **Resident** TCS:BUS Operation Various About AMI1010x Back **Resident** Add **Change** Delete Sort Back	• Press F3 key on PS/2 keyboard or: • Select *Resident* in the main menu. • Select *Change* in the resident menu.
Resident Change Resident name Bah ↵ = Save ESC = Cancel	• Make the changes. • Confirm each entry. **!** **Attention**: **Save your entries by pressing the OK/Enter key, otherwise the dataset is rejected!** • Start sorting the resident list.

Delete residents

Display / Entry	Action / Description
13:01 0.0°C Bahrdt, M. Bartum, J. **Baumgarten, E.** Carrion Höckelmann **OK Help | ♪ Calling**	• Select the name to be modified from the resident list.
or: **F4** **Main menu** **Resident** TCS:BUS Operation Various About AMI1010x Back **Resident** Add Change **Delete** Sort Back	• Press F4 key on PS/2 keyboard or: • Select *Resident* in the main menu. • Select *Delete* in the resident menu.
Delete resident Baumgarten, E. F1 = Delete ESC = Cancel	• Press F1 key to delete the resident. The selected resident dataset is deleted. (delete all datasets see p. 21)

TCS:BUS®, operation, various about AMI1010x

- Note**:** After every step, save the data on the EEPROM memory: perform the process *various > store memory* (see p. 20).

TCS:BUS®	main menu > TCS:BUS®		
TCS:BUS **Parameter** Options Access codes S-Entrance Back	**parameter** **Parameter** **AS address** Conversation time Standby time Door release time Call time Back	**AS address** Parameter AS address 0 ↵ = Save ESC = Cancel	• Enter the AS address of the front-door station. • Confirm the entry. *Only values from 0 ... 63 can be stored. .*
		communication time Parameter Conversation time F1 ▮56 s F2 ↵ = Save ESC = Cancel	The communication time 0 to 2 min can be adjusted in steps of 8 s. **0 = umlimited** **factory setting = 56 s**
		standby time Parameter Standby time F1 ▮56 s F2 ↵ = Save ESC = Cancel	The standby time 0 to 2 min can be adjusted in steps of 8 s. **0 = unlimited** **factory setting = 56 s**
		door release time Parameter Door release time F1 ▮ 2.0 s F2 ↵ = Save ESC = Cancel	The door release time (time to control the R-contact) 0 to 7.5 s can be adjusted in steps of 0.5 s. **factory setting = 2 s**
		call time Parameter Call time F1 ▮4.0 s F2 ↵ = Save ESC = Cancel	Adjust the duration of a ring tone at an indoor station. The call time (duration of a ring tone at an indoor station tones) 0 to 7.5 s can be adjusted in steps of 0.5 s. **factory setting = 4 s**

WE *factorey settings ex works (= delivery state, should not be equated with the state after reloading to factory settings,*
see p. 19)

TCS:BUS®	main menu > TCS:BUS®

TCS:BUS Parameter **Options** Access codes S-Entrance Back	**options** **Options** **Light function** ☐ Door opener TLB ☐ Voice conn. TLB ☐ Door op. long off ☐ Back		• Select functions. • Confirm the selection.
		light switch function	**Light switch function:** Application: Switch on the lights by pressing the door release button at the indoor station (when handset is hung up). The light switch function of the power supply and control unit is activated. A 32 bit door release protocol is interpreted as light switch function at the front-door station and is acknowledged accordingly. **factory setting = deactivated**
		door opener during door standby time	**Door opener during door standby time:** Application: R-contact of the front-door station is only triggered by the called indoor station when in standby time. **factory setting = deactivated**
		voice communication during door standby time	**Voice communication during door standby time:** Application: Voice communication with the door is only established while door standby time. This provides unmotivated "listen in" to the front-door station by an indoor station. **factory setting = deactivated**
		door opener, long off	**Door opener, long analyse:** Application: R-contact of the front-door station is only triggered when voice communication is established. 32 bit door release protocols are **not** analysed. **factory setting = deactivated**

TCS:BUS®	main menu > TCS:BUS®		
TCS:BUS Parameter Options Access codes S-Entrance Back	**access codes** Access codes Access code 1 Access code 2 Access code 3 Master code Back	**access code 1** Access codes Access code 1 9867 ↵ = Save ESC = Cancel	Up to 3 codes with 1-4 digits can be set for authorised persons. • Enter a number with 1-4 digits. (Preceeding zeros are ignored.) • Confirm the entry. 0, no entry = no code is set **factory setting = 0 (no code)**
		access code 2 Access codes Access code 3 099 ↵ = Save ESC = Cancel	• Enter a number with 1-4 digits. • Confirm the entry. 0, no entry = no code is set **factory setting = 0 (no code)**
		access code 3 Access codes Access code 3 0 ↵ = Save ESC = Cancel	• Enter a number with 1-4 digits. • Confirm the entry. 0, no entry = no code is set **factory setting = 0 (no code)**
		master code Access codes Master code 1234 ↵ = Save ESC = Cancel	Enter the master code to call up the main menu. • Enter a number with 1-4 digits. • Confirm the entry. • **Code forgotten?** **access possible via:** **ProgON/ProgOFF at BVS20-SG.** The master code is set to 8799 (for 2 min.). 0, no entry = no code is set, master code deactivated **factory setting = 1234**

TCS:BUS®	main menu > TCS:BUS®

S-input

```
TCS:BUS
Parameter
Options
Access codes
S-Entrance
Back
```

```
S-Entrance
Door opener        ○
Light switch fct.   ◉
Control function   ○
Door call          ○
Flat number
Back
```

For this function, a separate push button (closing contact or key switch in the front-door station) **must be connected to the contacts S and P.**

As alternative, choose following functions:

door opener

Send a door release protocol:
Operate a door opener by pressing the push button (indoors, e.g. staircase).

When the contact between P and S input is closed, a door release protocol is send with the set AS-address of the front-door station.

light switch function

Send a light switch protocol:
Switch on the lights by pressing the push button. The light switch contact of the power supply and control unit is activated.

When the contact between P and S input is opened, a light switch protocol is send with the set AS-address of the front-door station.

factory setting = selected

control function

Send control functions 1 and 2, alternating:
Select this option, if the status of the push button is to be transmitted via the TCS:BUS® and analysed by the BRE2.

When the contact between P and S input is closing, a control protocol with the serial number of the front-door station and the control function number 2 is send.

When the contact between P and S input is opened, a control protocol is send with the set AS-address of the front-door station and the control function number 1.

door call

Concierge call button:
When the contact between P and S input is closed, the database is searched for a dataset with the respective flat number set under "flat number". If both match, the corresponding door call is send.

flat number

```
S-entrance
Flat number



↵ = Save
ESC = Cancel
```

- Enter the flat number of the concierge/janitor.
- The flat number for the option "door call" must be entered here, (otherwise, no call is triggered when pushing the button.)

operation	main menu > operation		
Operation **Options** Synonyms Acoust. feedback Language Start screen Input device Back	**options** **Options** **Illumination autom.** Display floor ☐ Hide empty data sets ☐ Summertime ☑ Browse back Back	illumination ON illumination OFF illumination AUTO	**Backlight:** Change the operation mode for the backlight of the display: ON illumination is always ON OFF illumination is always OFF AUTO illumination only switches ON when front-door station is operated **factory setting = AUTO**
		display floor	**Display floor** Activates the display and input of floor numbers in the front-door station (also refer to p. 8) **factory setting = deactivated**
		hide empty dataset	**Hide empty datasets** Datasets which start with a "!" in the residents name, are not displayed in the resident list when this option is activated. • Automatic sorting of the datasets. • When this option has been deactivated, this datasets become visible again. • Thus, datasets can be set for free flats but these datasets will not be displayed. **factory setting = deactivated** *Note:* *If this option is activated, no new resident datasets can be added!*
		summertime	**Activate summer-/wintertime** Activates the automatic switch over between summer-/wintertime. In countries without summertime, this setting must be deactivated. **factory setting = activated**
		scroll backwards	Front-door station with jog wheel: the rolling direction is opposed to the direction you turn the jog wheel.

operation	main menu > operation			

	synonyms	**flat**	Enter another term to rename the flat in the text output (e.g. apartment, max. 12 digits). **factory setting = flat**
Operation Options Synonyms Acoust. feedback Language Start screen Input device Back	**Synonyms** Flat Floor Ground floor Back	**Synonyms** **Flat number** Flat RET = Save ESC = Cancel	
		floor **Synonyms** **Floor** Floor RET = Save ESC = Cancel	Enter another term to rename the floor in the text output (e.g. corridor, max. 12 digits). **factory setting = floor**
		ground floor **Synoynms** **Ground floor** Ground floor RET = Save ESC = Cancel	Enter synonym for the term floor 0 (ground floor) in the text output (e.g. first floor, max. 12 digits). **factory setting = ground floor**

operation	main menu > operation		

	acoustic feedback	tone output	**Tone output** Activates the output of acknowledgement tones. **factory setting = activated**
Operation Options Synonyms **Acoust. feedback** Language Start screen Input device Back	**Acoust. feedback** Tone output ☑ Conversation start ☐ only short tones ☐ Voice output ☐ Volume tone output Volume voice output Back	start communication	**Start communication** Activates the output of an acoustic signal at the front-door station when the called indoor station accepts the call. **factory setting = deactivated**
		only short tones	**Only short acknowledgement tones** Activates the output of short acknowledgement tones only (beep). **factory setting = deactivated**
		voice output	**Voice output for user guidance** Activates the output of vocal instructions as additional user guidance. (Delivery state voice output: German, other languages on request.) **factory setting = deactivated**

		vol. tone output	**Volume tone output**
		Acouts. feedback **Volume tone output** F1 ▮▮▮▮▯▯▯ F2 ↵ = Save ESC = Cancel	Volume of the acknowledgement tones can be adjusted in 10 steps: When pressing F1 or F2 key, a control tone with the adjusted volume sounds (not, if tone output is switched off.) **factory setting = middle position**
		vol. voice output	**Volume voice output**
		Acoust. feedback **Volume voice** F1 ▮▮▮▯▯▯ F2 ↵ = Save ESC = Cancel	Volume of the vocal instructions can be adjusted in 10 steps: When pressing F1 or F2 key, a vocal instruction with the adjusted volume sounds. (Delivery state voice output: German, other languages on request.) **factory setting = middle position**

operation	main menu > operation		
▦▦▦ F6 or **language** **Operation** Options Synonyms Acoust. feedback **Language** Start screen Input device Back	**Language** **German** ↑↓ = Selection ↵ = Save ESC = Cancel		Press F6 key or: Select language of the display: English, French, Danish, Dutch, Turkish, Serbian, Italian, Spanish, Portuguese, Swedish, Slowenian, Slovak, Czech, Croatian. **factory setting = German**

operation	main menu > operation		
Operation Options Synonyms Acoust. feedback Language **Start screen** Input device Back	**start screen** **Start screen** **Switched OFF** ○ Company logo ◉ Digital watch ○ Temp. indication ○ User image ○ Back	switched off company logo digital clock	Alternatively, select one of the following: **Start screen switched off** No start screen but the resident list is always displayed. **Start screen company logo** When in standby mode, the company logo is displayed in the start screen. **factory setting = TCS-Logo** **Start screen time** When in standby mode, the current time is displayed in the start screen. (change time see p. 18)

operation	main menu > operation		
		temp. display	**Start screen outside temperature** When in standby mode, the outside temperature is displayed in the start screen. **Attention**: For this option, the outside temperature sensor FBS2100 is necessary. Sensor is not included in the delivery. See accessory p. 19. If there is no temperature sensor, or it has been installed not correctly, the temperature 0 °C resp. 32 °F is displayed.
		user image	**Start screen according to customer** When in standby mode, an image or logo is displayed in the start screen. The logo resp. image can be selected by the user. The image must be uploaded with the ADx configurator into the memory of the front-door station. Otherwise, a black rectangle is displayed.

operation	main menu > operation		
Operation Options Synonyms Acoust. feedback Language Start screen **Input device** Back	**input device** Input device Jog wheel old ↑↓ = Selection ↵ = Save ESC = Cancel	• Jog wheel old • Keyboard old • Keyboard new and jog wheel new • Jog wheel new • Keyboard new	Alternatively, select following settings: To adapt the front-door station if input devices jog wheel or dialling keypad are exchanged. **factory setting = keyboard new**, see p. 19

other	main menu > other		
Various **Time & date** Temp. sensor Factory setting Load memory Save memory Delete memory Back	**time & date**	time Time (hh:mm) 11 : 10 F1 F2 ↵ = Save ESC = Cancel	Set time with F1 and F2 key: • Confirm the entry.
		date Date (yy.mm.dd) 07 .04 .25 F1 F2 F3 ↵ = Save ESC = Cancel	Set date with F1, F2 and F3 key: • Confirm the entry.

other	main menu > other

	temp. sensor		Configure external temperature sensor type FBS2100:
Various Time & date **Temp. sensor** Factory setting Load memory Save memory Delete memory Back	Temp. sensor **No sensor** ○ Celsius ◉ Fahrenheit ○ Serial number Back		• The outside temperature is displayed in the resident list next to the date. • The temperature can also be displayed in the start screen instead of a logo.
		no sensor	**No sensor** Switches off the function. No sensor for outside temperature is configured. Instead, the date is displayed in the resident list.
		Celsius	**factory setting = selected** **Temperature display °C** The temperature sensor is active. The temperature is displayed in degrees Celsius.
		Fahrenheit	**Temperature display °F** The temperature sensor is active. The temperature is displayed in degrees Fahrenheit
		serial number Temp. sensor Serial number 256345 ↵ = Save ESC = Cancel	• Enter the serial number of the FBS2100. • Save the entry.

other	main menu > other

	factory setting		Load factory settings:
Various Time & date Temp. sensor **Factory settings** Load memory Save memory Delete memory Back	Factory settings **All factory settings are overwritten!** F1 = Further ESC = Cancel		• Confirm with F1 key to load the settings. • The datasets remain in the database.

other	main menu > other		
Various Time & date Temp. sensor Factory setting **Load memory** Save memory Delete memory Back	**load memory** **Load memory** **Version 2.7.x** Version 3.0.x Version 4.x.x Back	**version 2.7.X** **Load memory** All data is overwritten! F1 = Further ESC = Cancel	For older devices, first determine the software version of the display front-door station "DIT" which database is to be imported: • Connect DIT to the voltage supply. The software version is displayed for 5 sec. • After loading is completed, remove the EEPROM memory of the DIT from the electronic module. Otherwise, the real-time clock will not work anymore. Import database of a DIT software version 2.7.X from an external memory (EEPROM). *If version 3.0.x instead of 2.7.x is set, Ö, Ü, Ä are not displayed correctly.*
		version 3.0.X **Load memory** All data is overwritten! F1 = Further ESC = Cancel	Import database of a DIT software version 3.0.X from an external memory (EEPROM). *If version 2.7.x instead of 3.0.x is set, Ö, Ü, Ä are not displayed correctly.*
		version 4.X.X **Load memory** All data is overwritten! F1 = Further ESC = Cancel	Import database of a AD3 software version 4.X.X from an external memory (EEPROM).

other	main menu > other		
Various Time & date Temp. sensor Factory setting Load memory **Save memory** Delete memory Back	**save memory** **Save memory** [████] Please wait!		Writes the content of the internal memory of the front-door station to the EEPROM. **This process has to be performed after every change. Thus, the EEPROM always has the most current data!** *Note: There is no automatic backup function.*

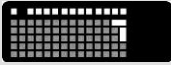| **other**	main menu > other		
Various Time & date Temp. sensor Factory setting Load memory Save memory **Delete memory** Back	**delete memory** **Delete memory** **All residents are deleted!** F1 = Further ESC = Cancel		The internal database memory is deleted when calling up this function. • The whole **resident database** will be deleted when confirming with the F1 key!

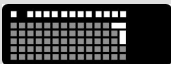| **About AMI1010x**	main menu > about AMI1010x		
About AMI1010x Type: AMI10105 Serial no: 6000 Software: 4.6.0 CPU temp: 34.0 °C Records: 416 ESC = Cancel			Shows device information on • Device name (e.g. AMI10100) • Serial number of the front-door station • Software version • Inside temperature of the device • Records: number of the stored data sets **Note**: Records includes the number of indicated datasets. Hidden datasets are not included!

F8, F9, F1 – keys for operation

The keys of the PS/2 keyboard correspond to the operating elements of the front-door station:

	PS/2 key-board	Front-door station
Enter access code (only devices with keypad)	F8	c
Bell button: call a resident	F9	🔔
ABC button: select initial letter	F10	AB C

Adjust the contrast of the display

	The contrast of the display can be adjusted with F11/F12 in 48 steps:
F11 Bewegen Sie das Drehrad!	**Reduce the contrast** • Press the F11 key on the PS/2 keyboard until the desired contrast is adjusted. The font appears brighter.
F12 TCS **Turn the jogwheel!**	**Increase the contrast** • Press the F12 key on the PS/2 keyboard until the desired contrast is adjusted. The font appears darker. Factory setting = middle position

Adjust volume voice output

- This function can only be called up while a voice connection is established. With this function, the volume of loudspeaker and microphone can be adjusted.
- The volumes should be adjusted after the resident data has been entered.

Ex works, the factory setting is set to medium. Please observe when adjusting the volume: The volume of loudspeaker and microphone cannot be adjusted independent of each other. If the volumes are too high, a feedback effect occurs (whistling).

17:19 → 15,6°C **Adler Pharmacy** **Arnold** **Baumgarten, E.** **Dombrowski, Alf** **Frey** **OK ▪ Help | R ▪ Calling** Call destination... Baumgarten, E. Wohnung: 79 △ Calling Talking to... Baumgarten, E. Wohnung: 79 Please start talking!	• Establish a voice connection from the display front-door station to the indoor station.
[F5] Volume Voice: Loudspeaker F1 ▬▬ F2 Microphone F3 ▬▬ F4 ESC = cancel	• Press the F5 key on the PS/2 keyboard. • The volume of the front-door station can be adjusted with the keys F1/F2. • The volume of the indoor station can be adjusted with the keys F3/F4. factory setting = middle position

Accessory

Short text	Article number
Maintenance package	FBI1210-0
PS/2-keyboard, German (for display module AMI1010x)	0005350
Temperature sensor UP, 1-fold	FBS2100-0600

Service

Please send your questions and inquiries to

hotline@tcsag.de